

FIG. 1

10

office 44

remote fiber terminal (RFT) 18

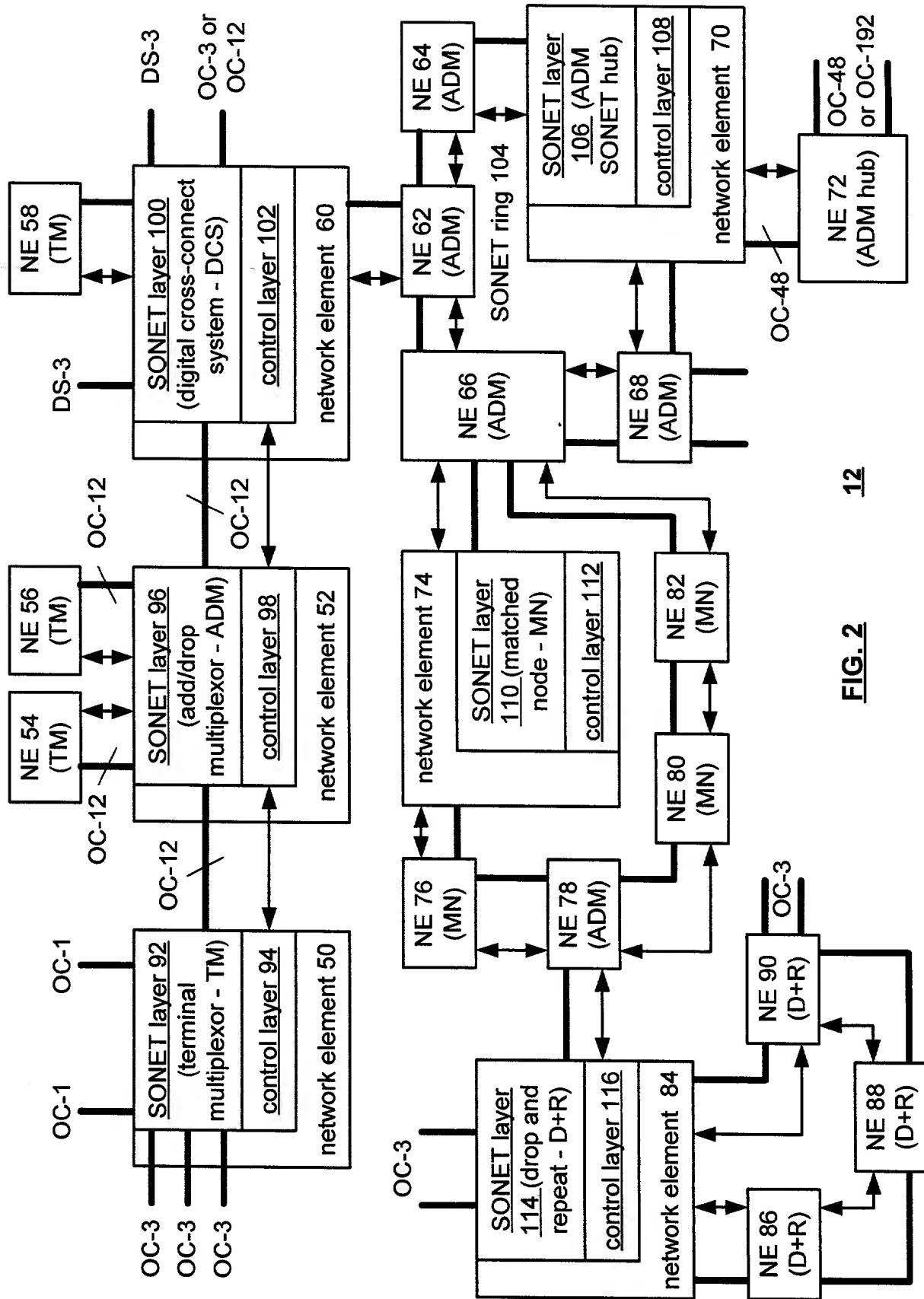
office 46

private branch exchange (PBX) 48

remote fiber terminal (RFT) 20

internet router 25

SONET communication network 12



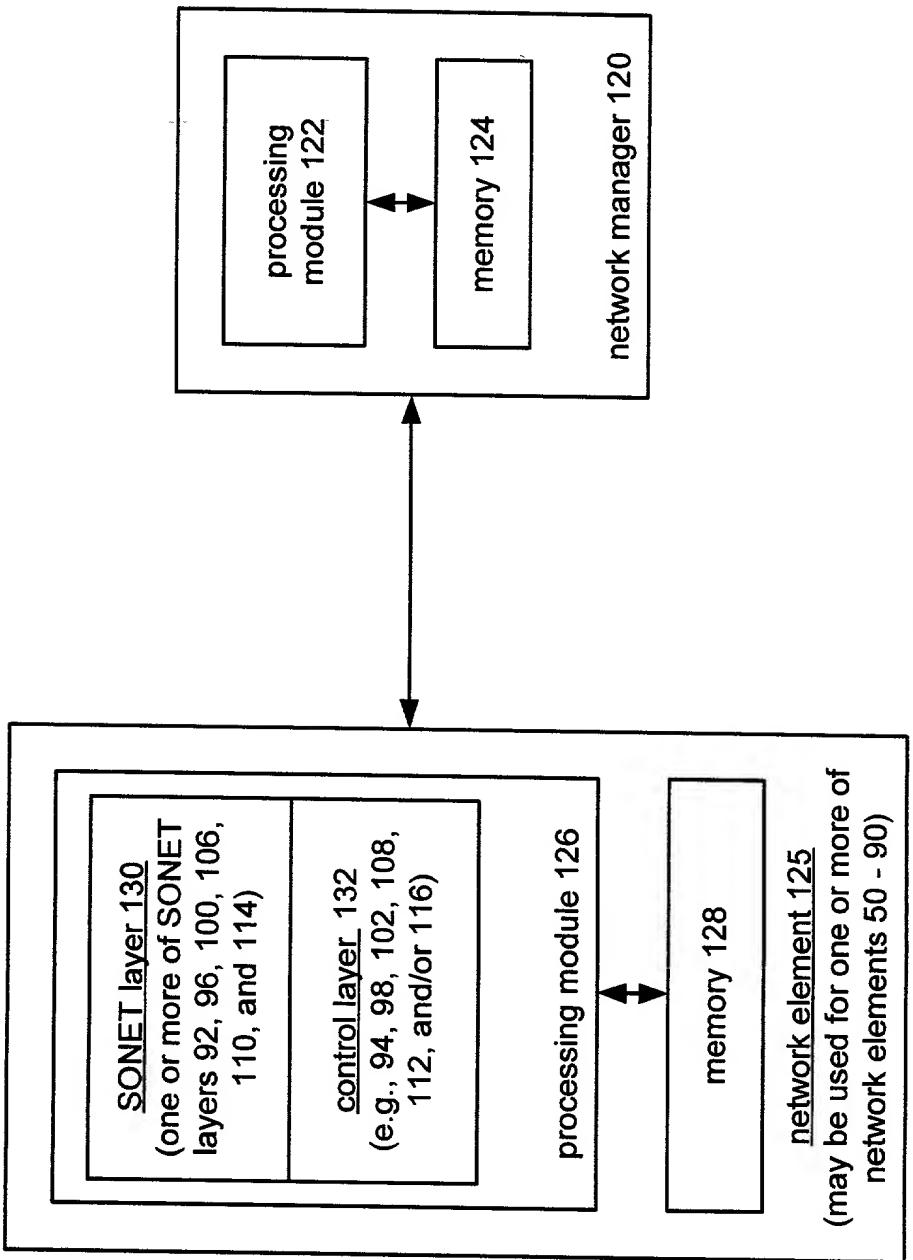


FIG. 3

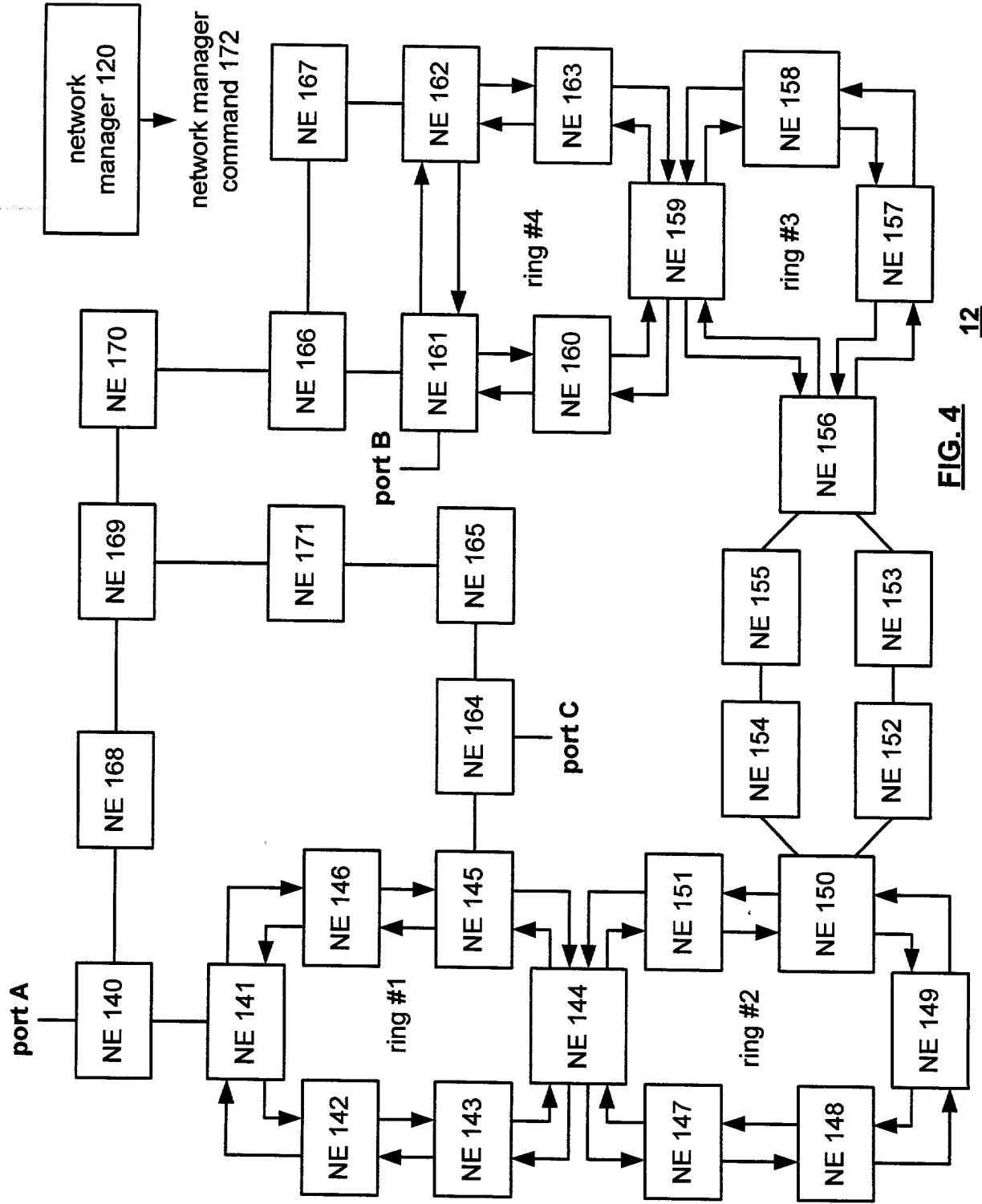


FIG. 4

12

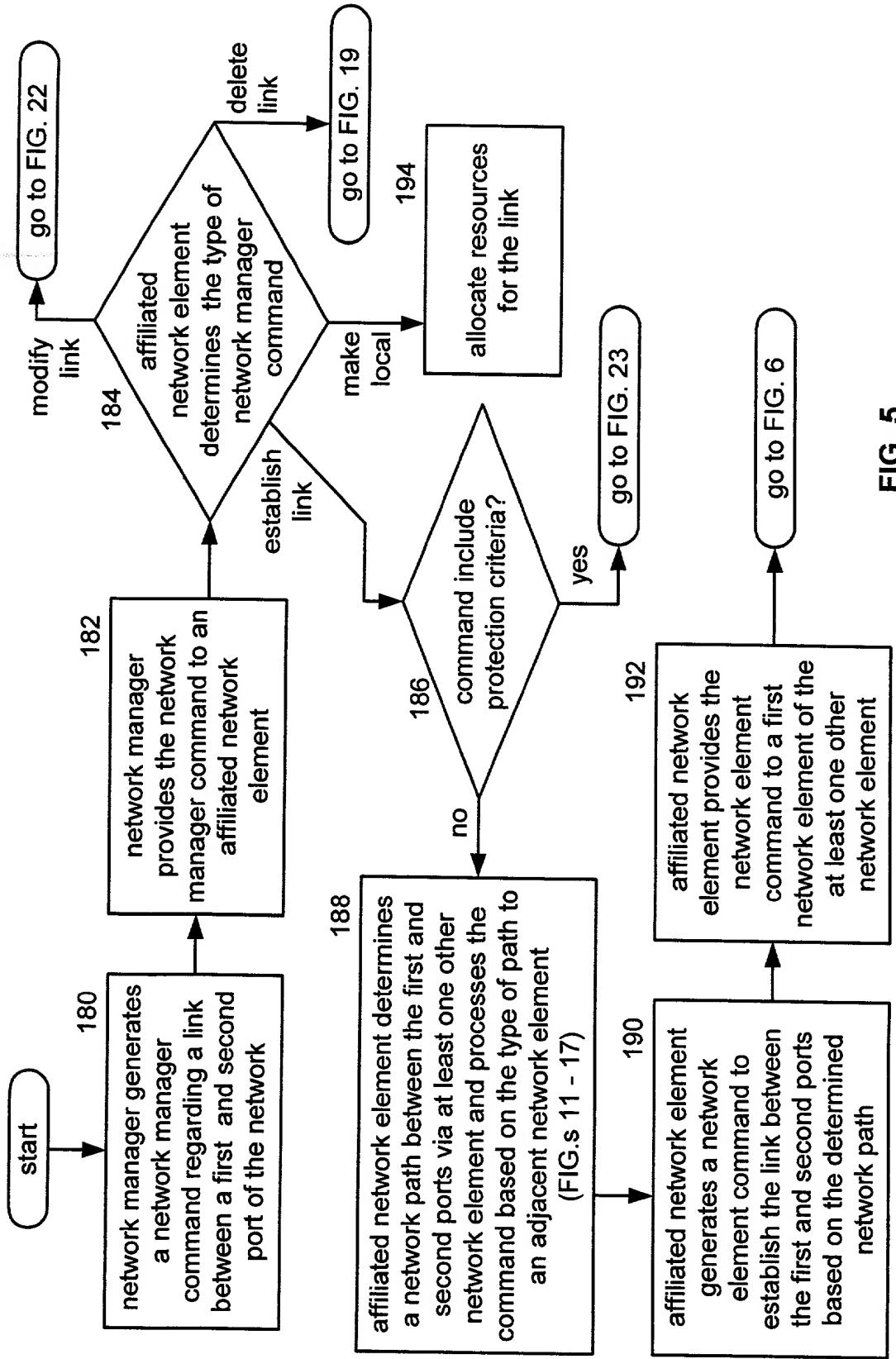
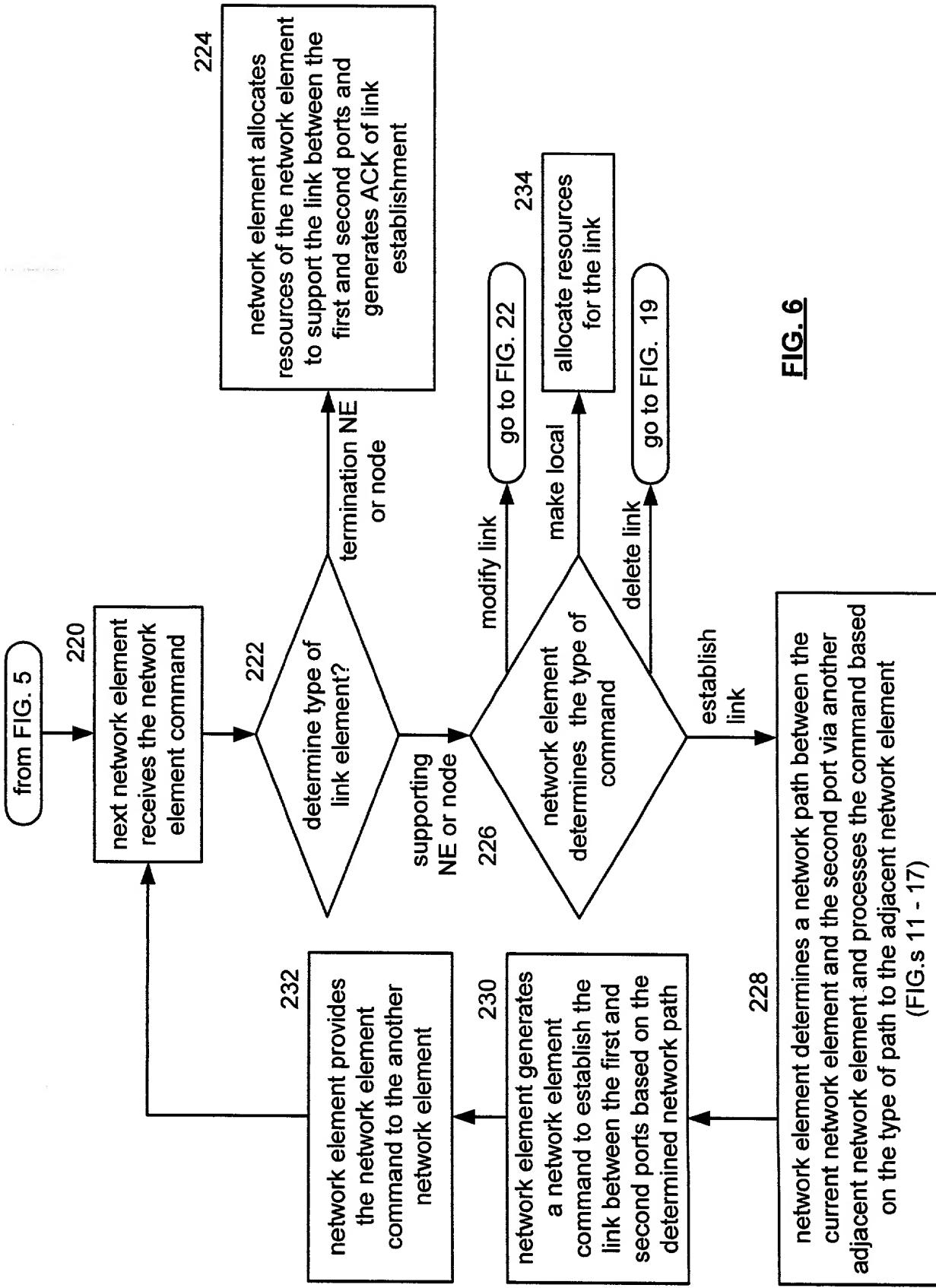


FIG. 5



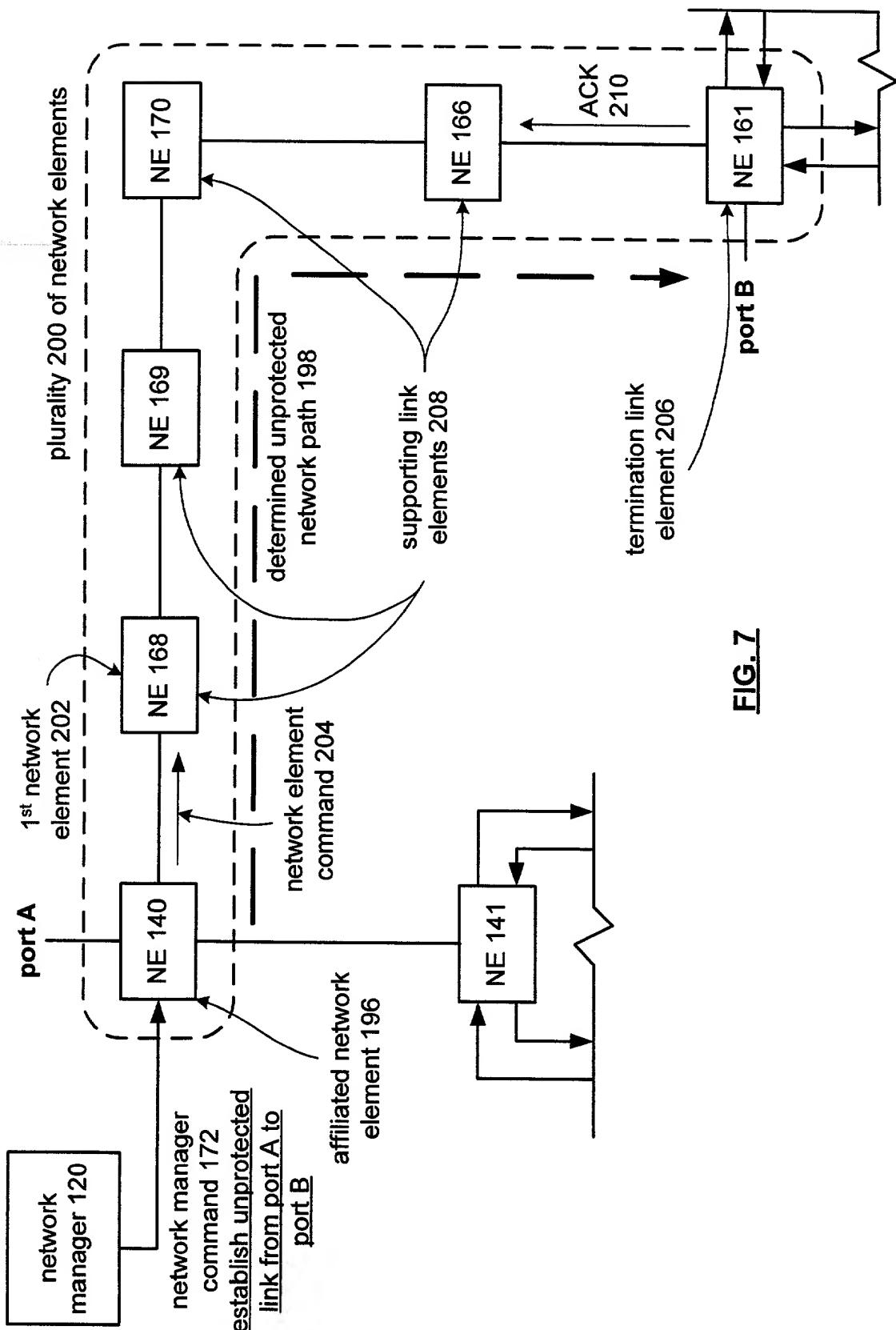
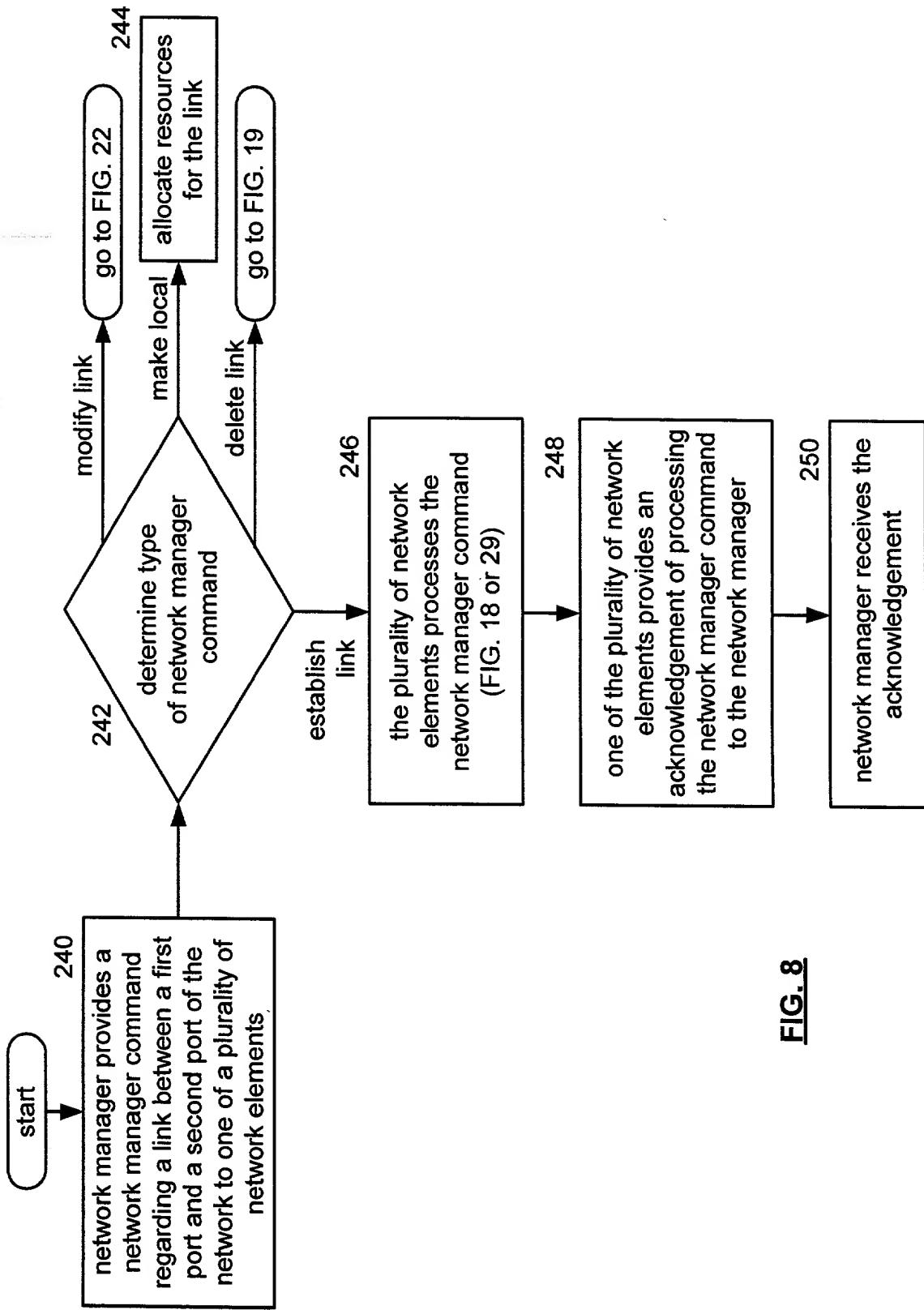
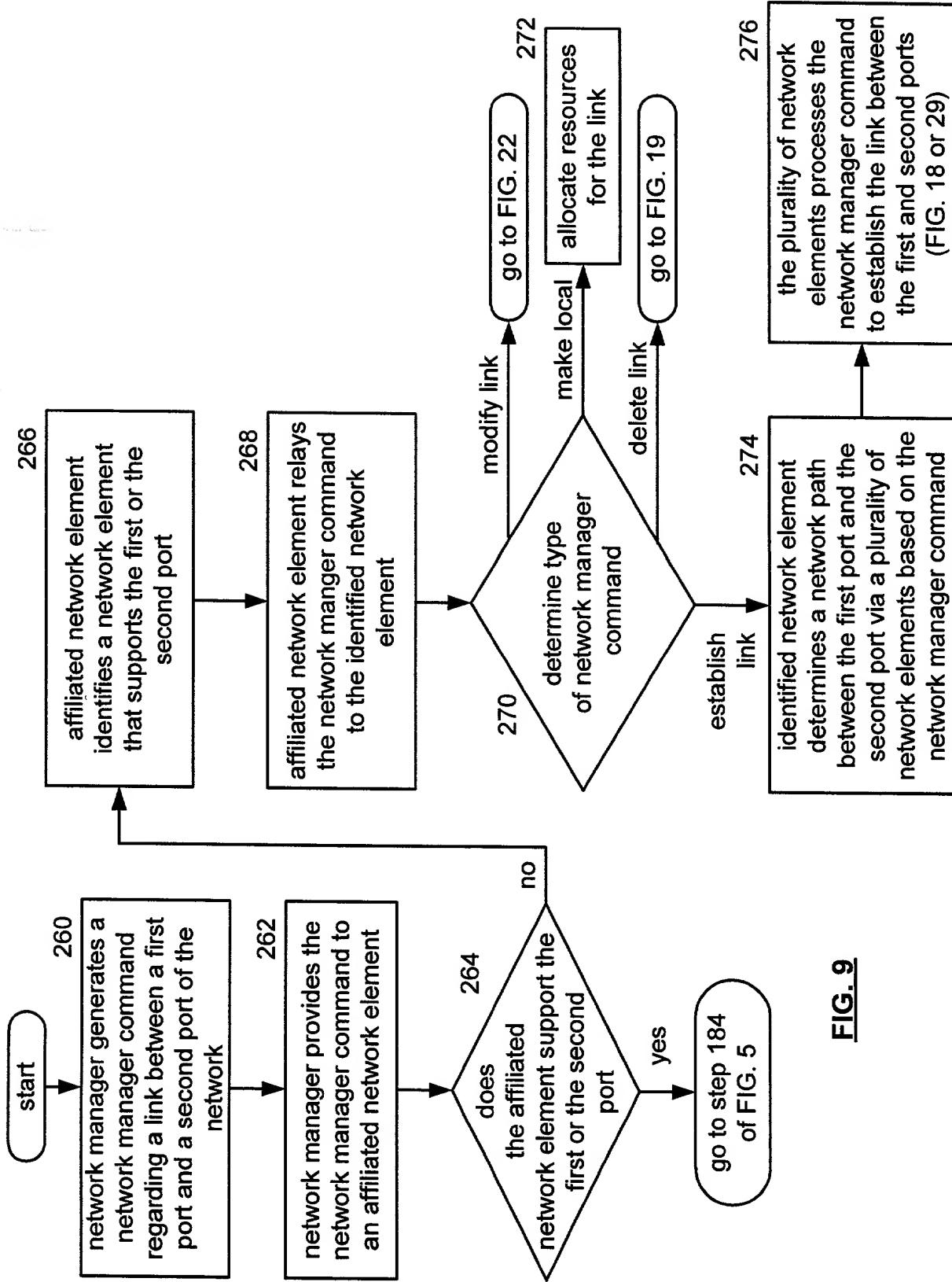


FIG. 7





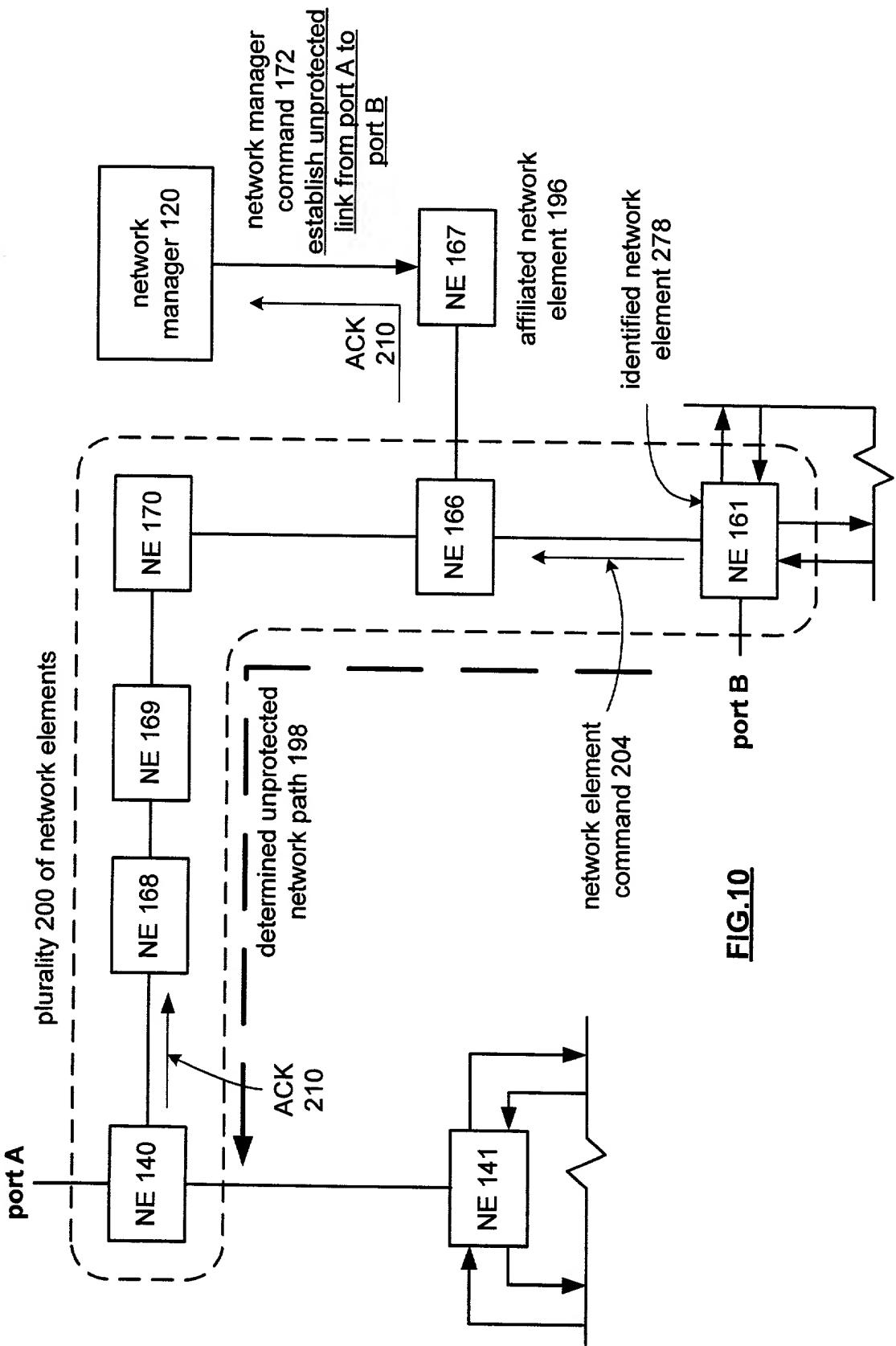


FIG.10

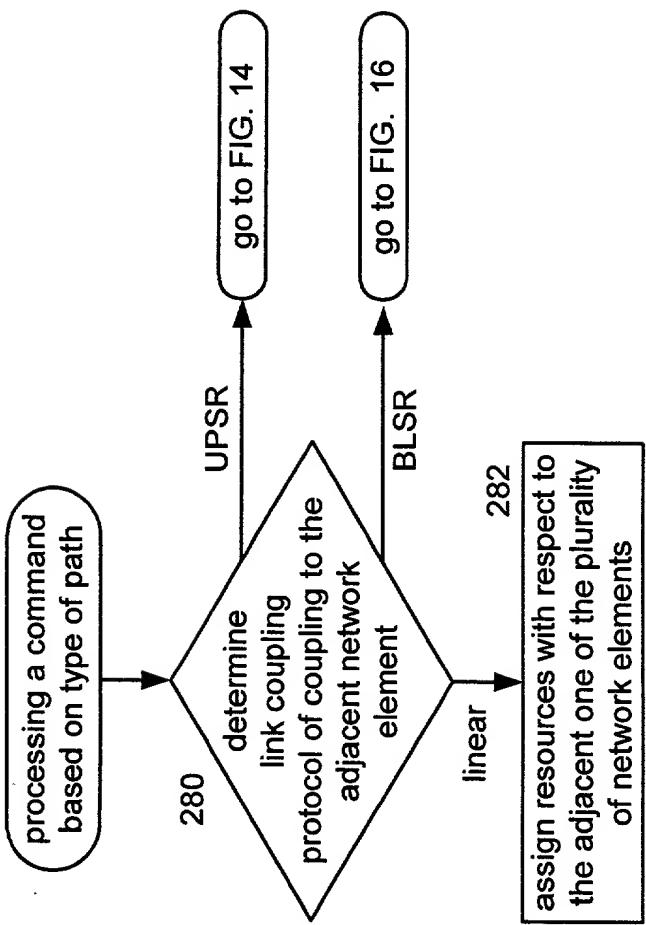


FIG. 11

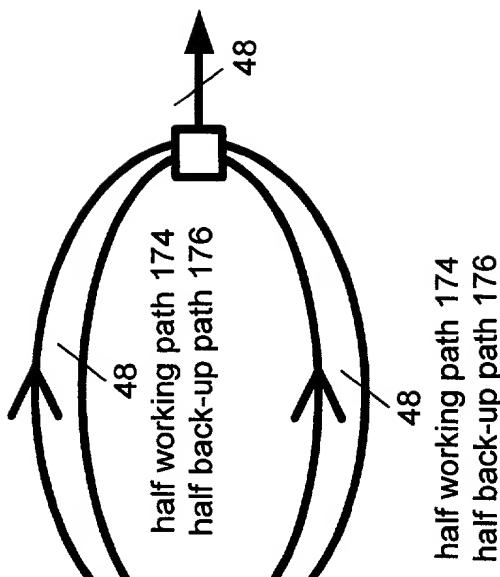


FIG. 13

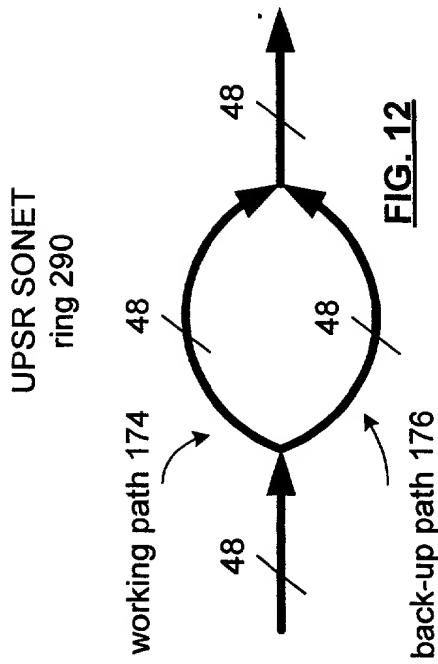


FIG. 12

half working path 174
half back-up path 176

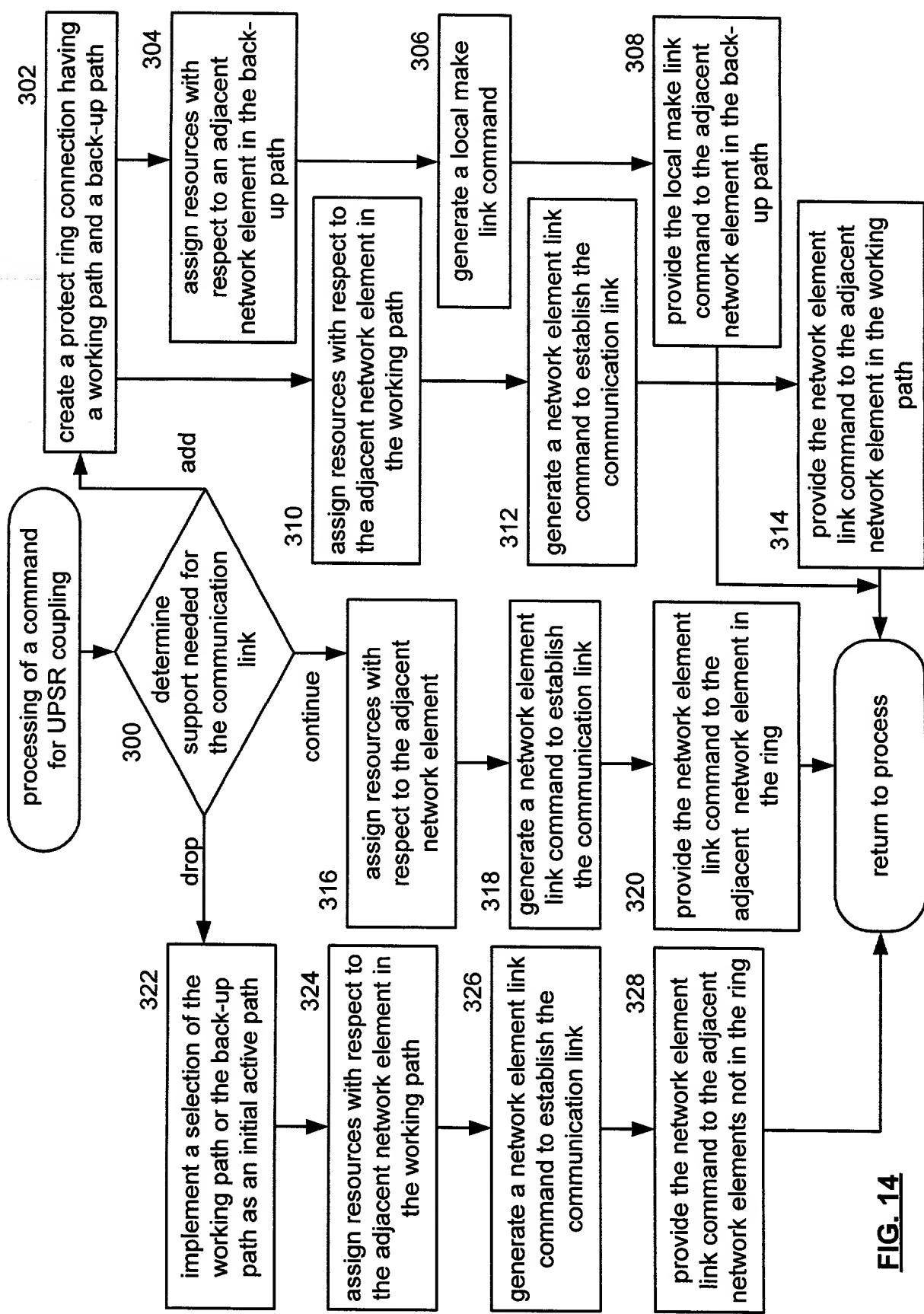


FIG. 14

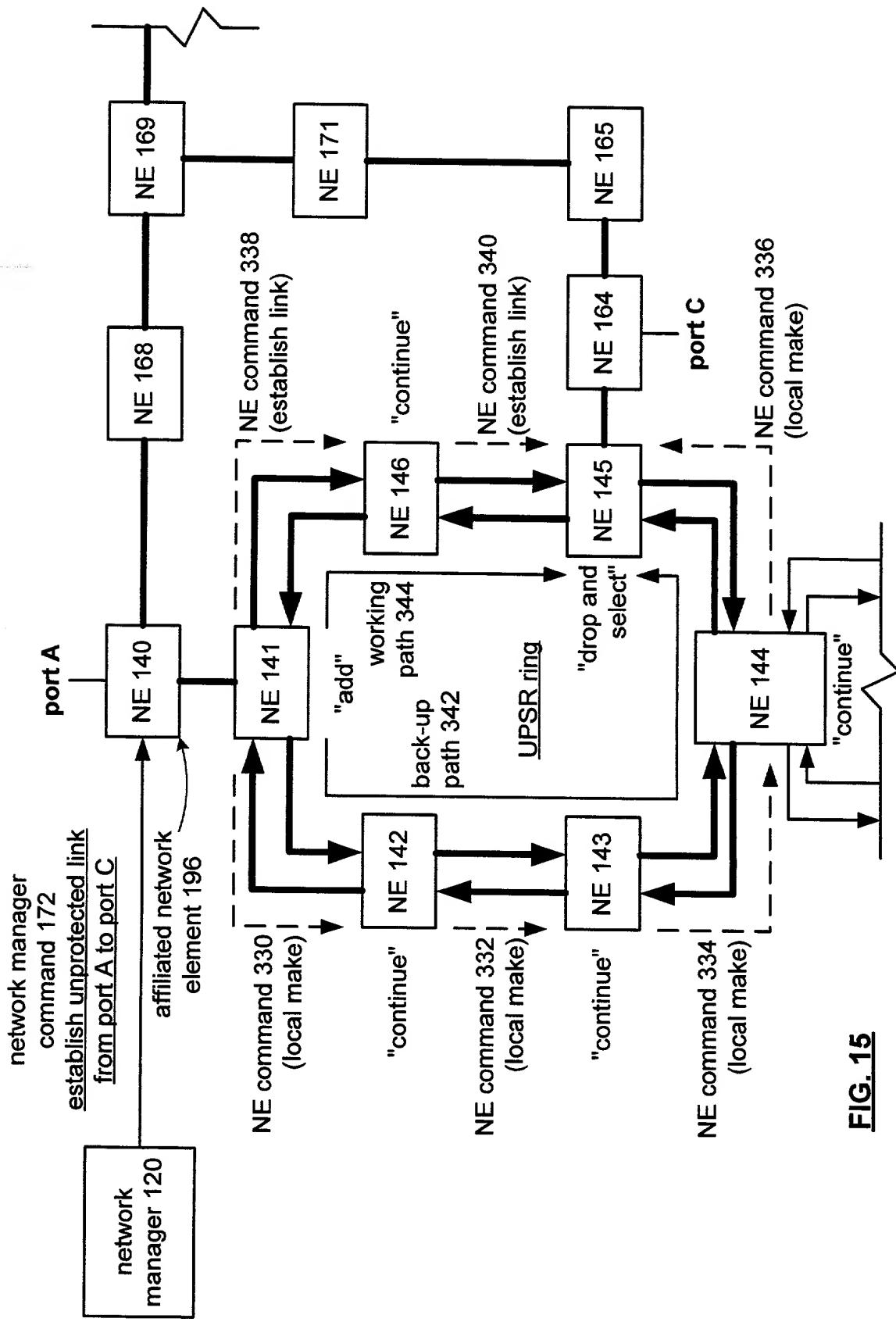


FIG. 15

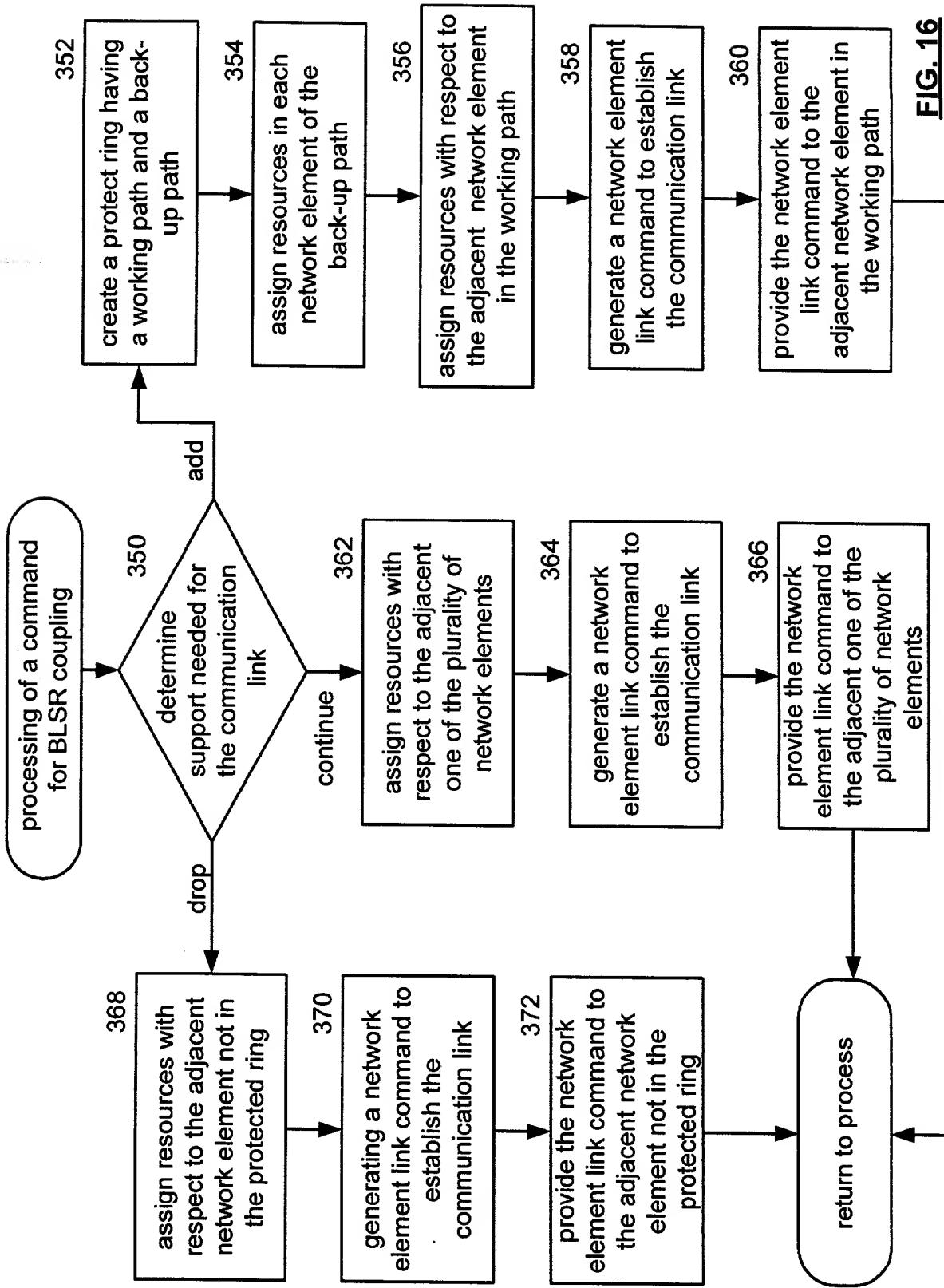


FIG. 16

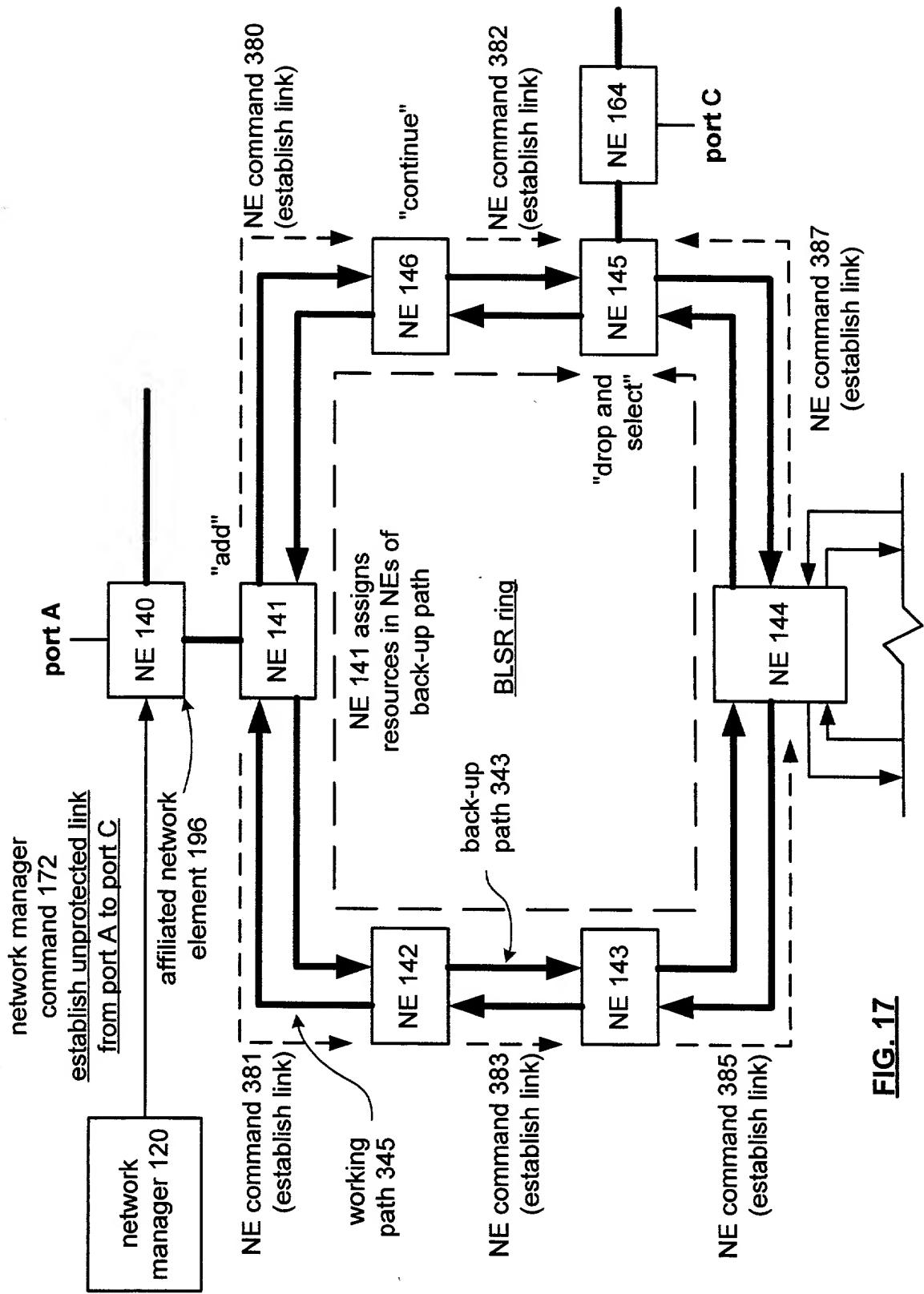
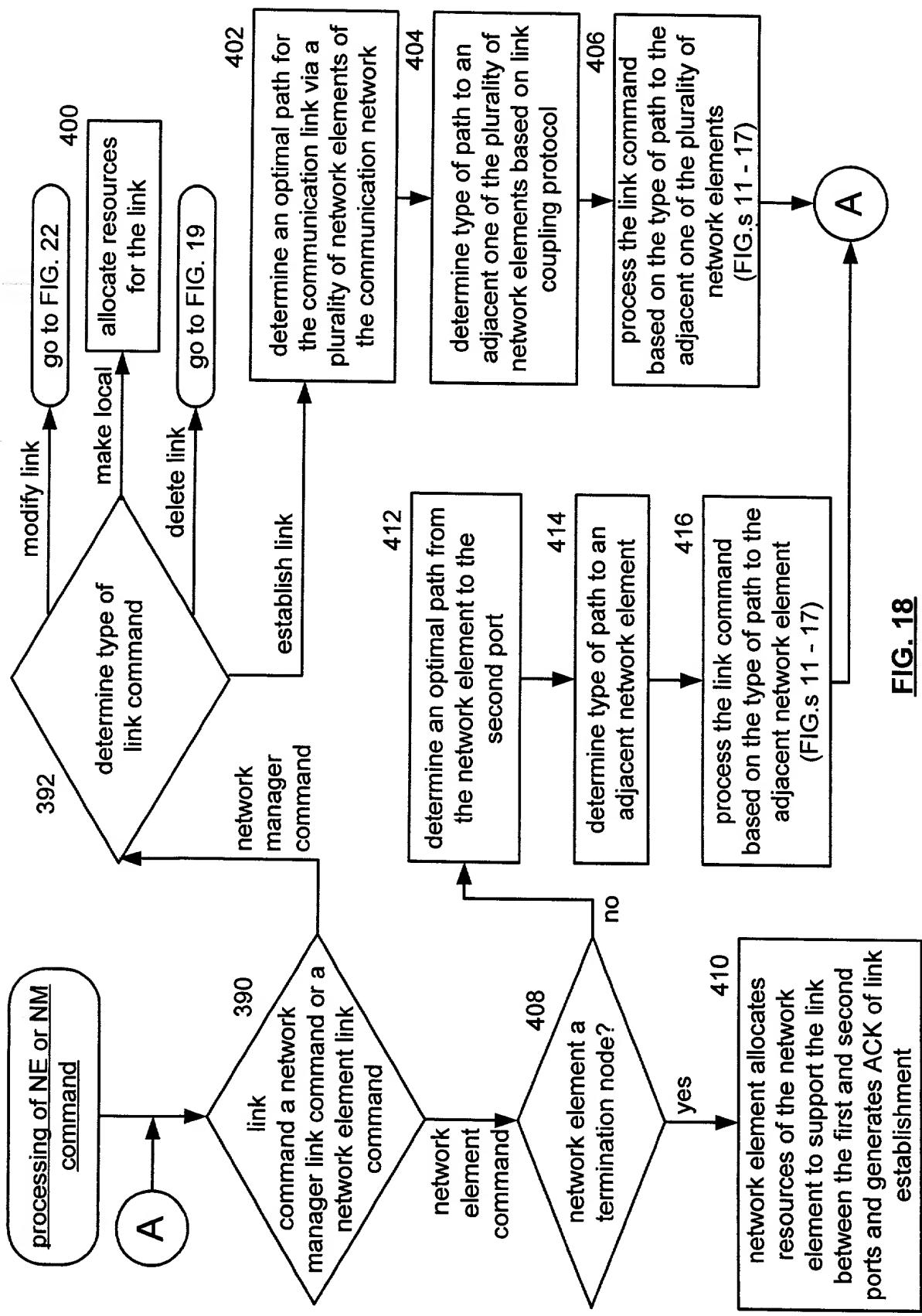


FIG. 17



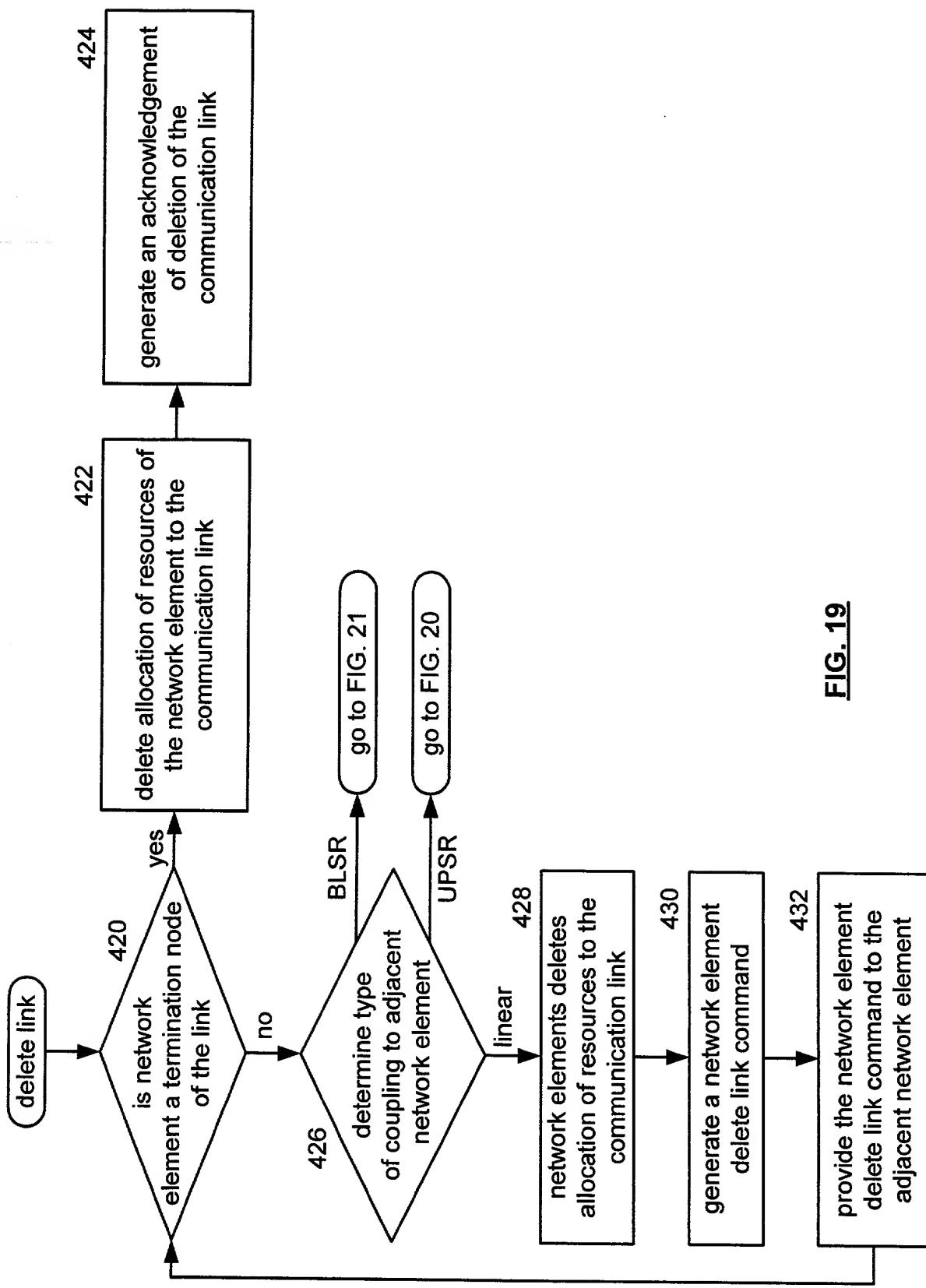


FIG. 19

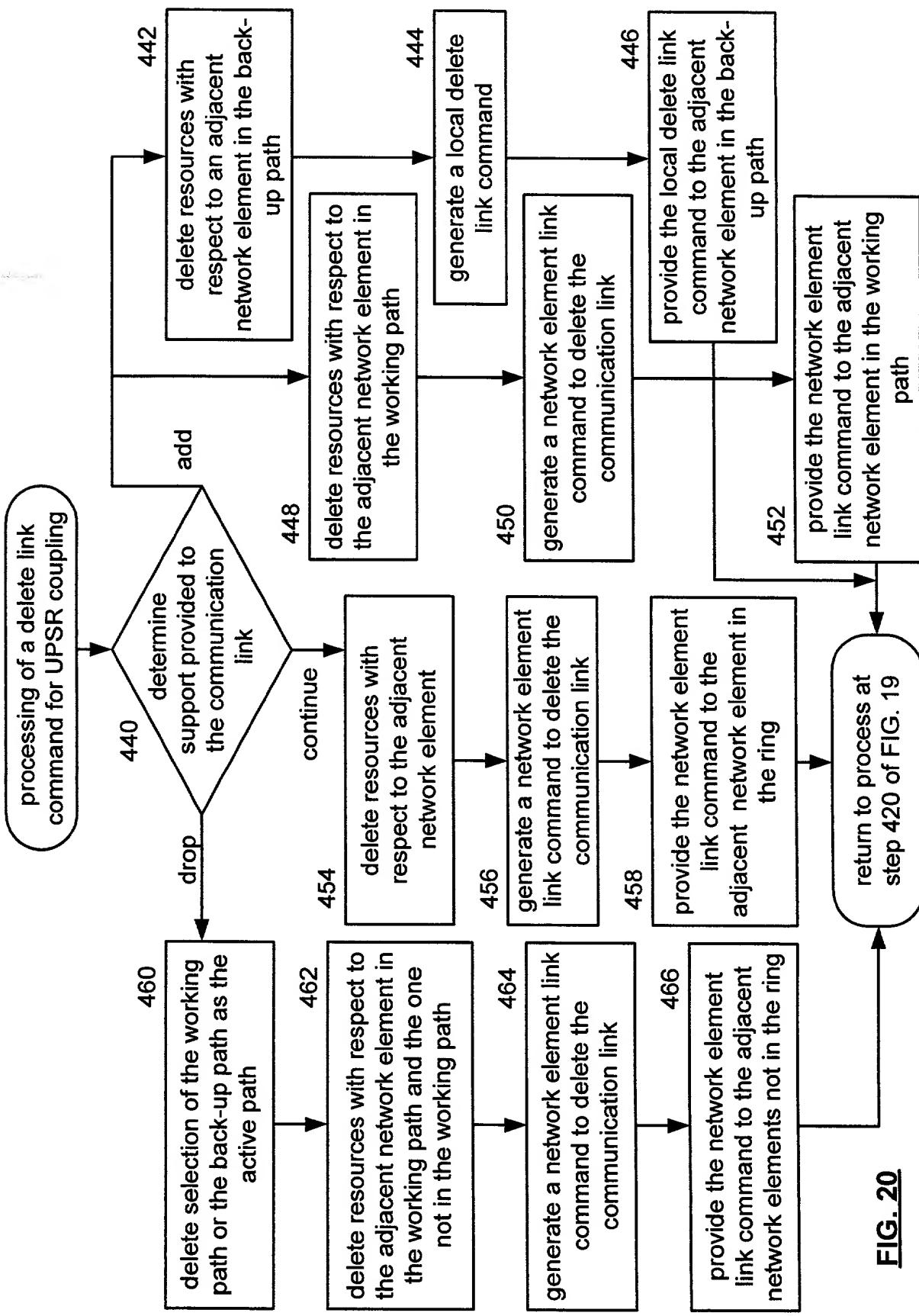


FIG. 20

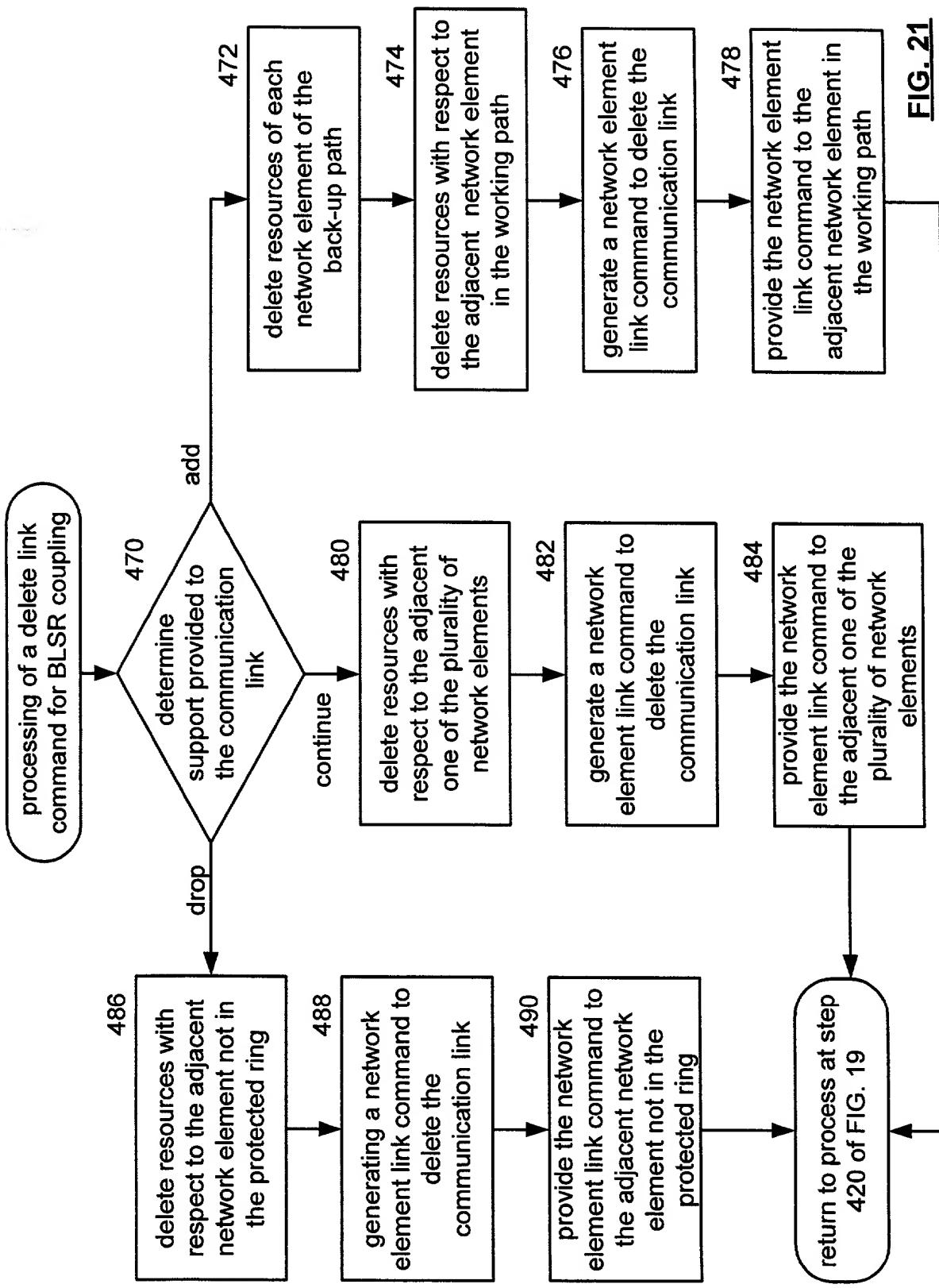
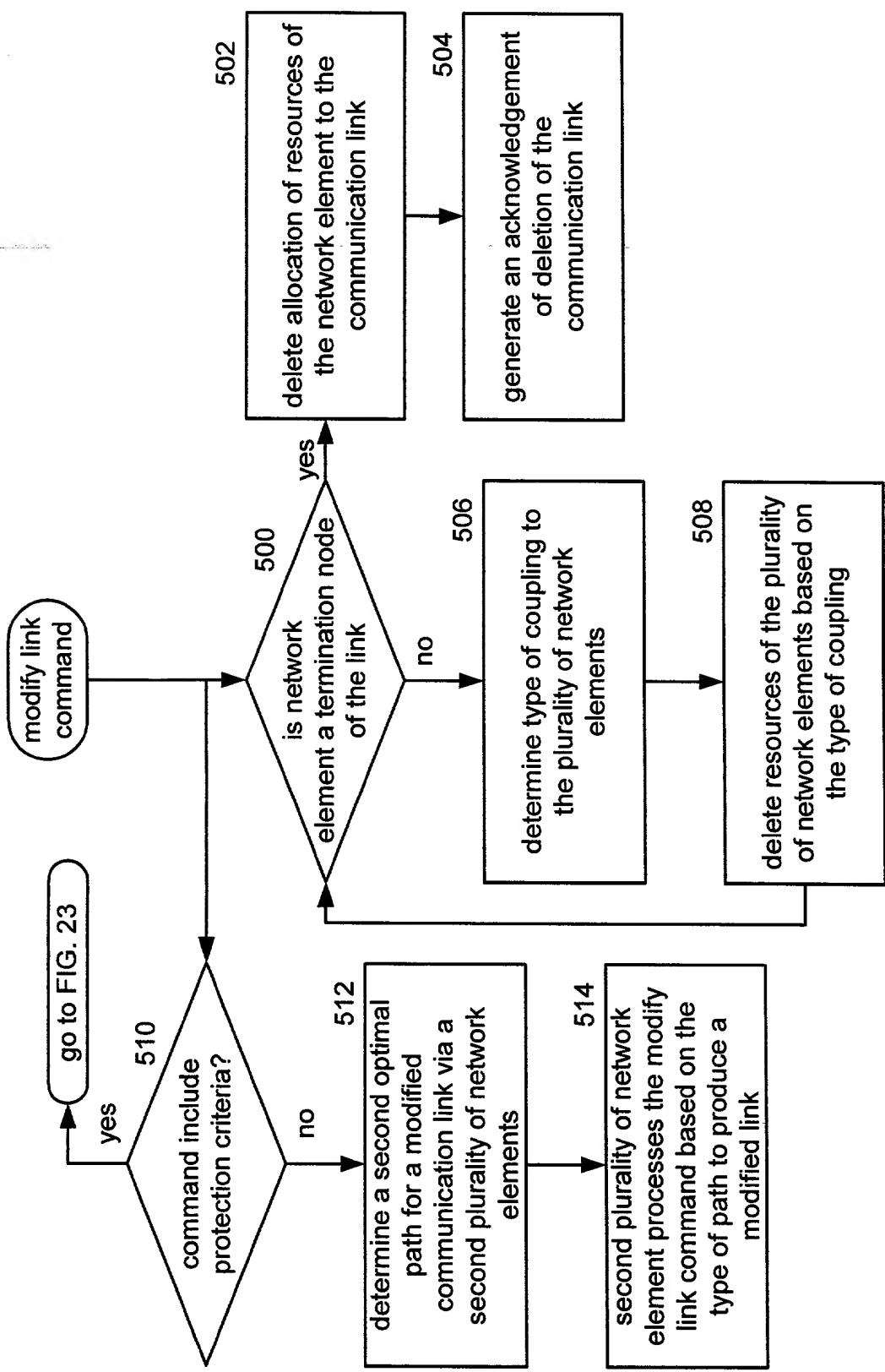


FIG. 21



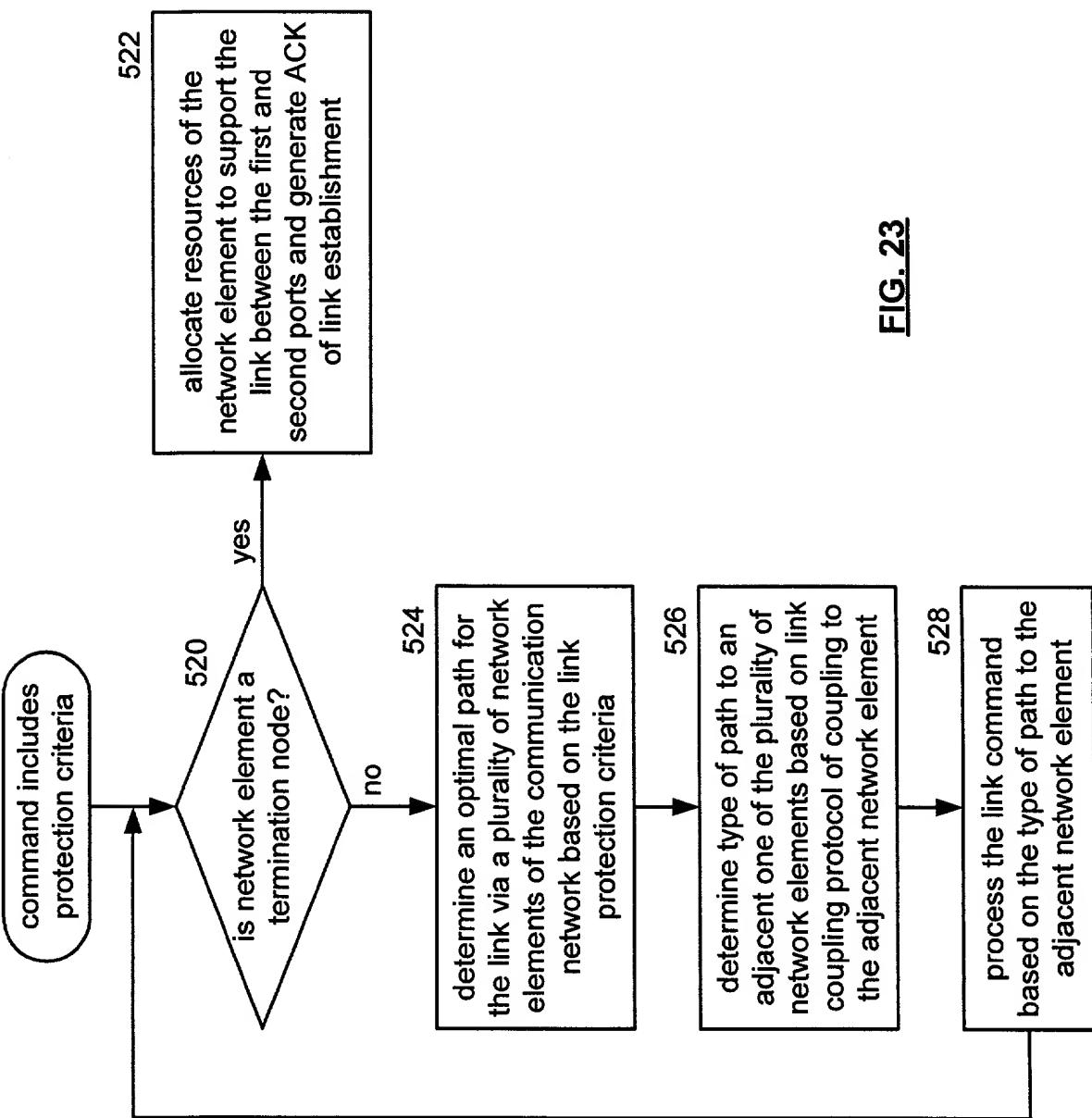
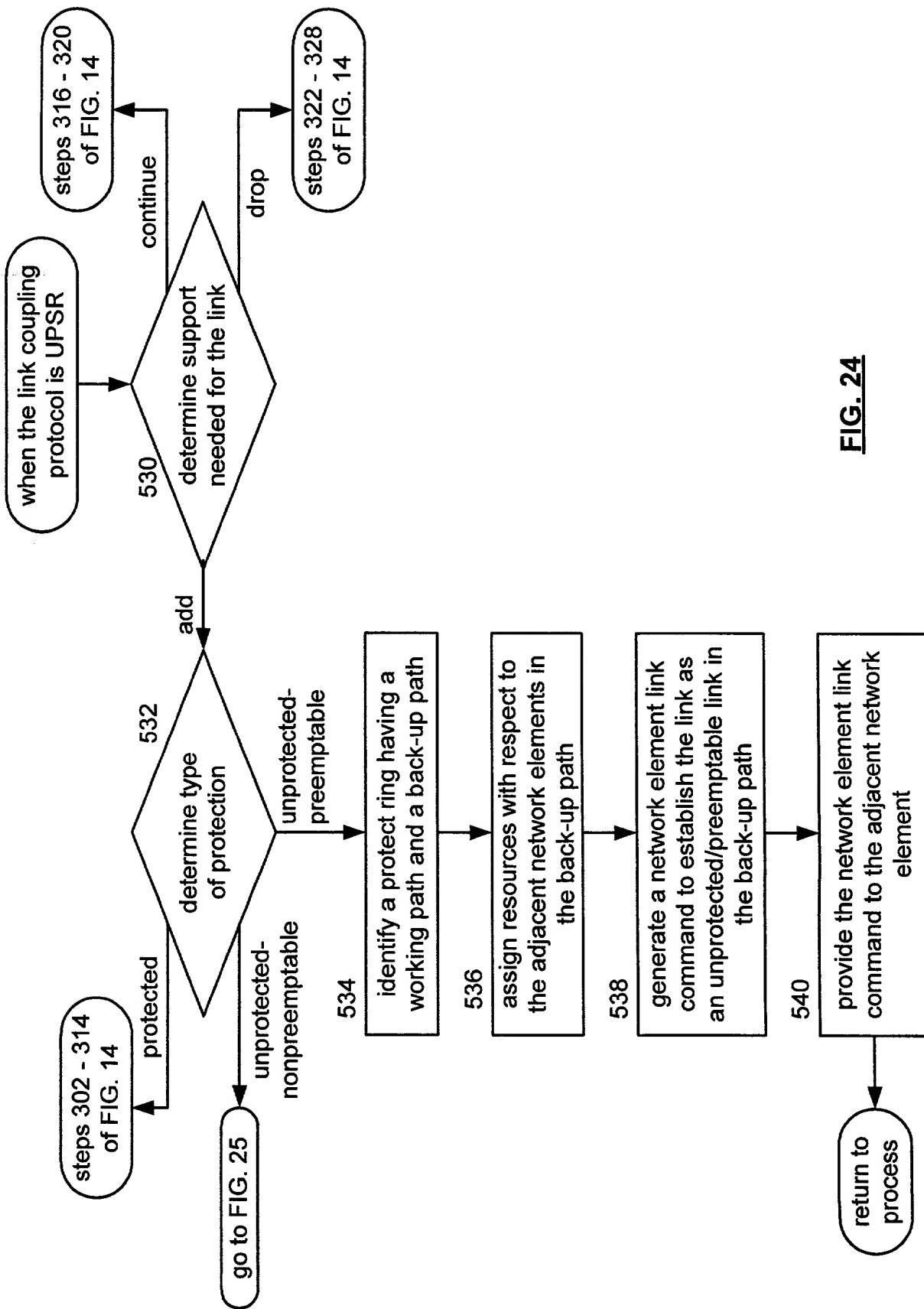
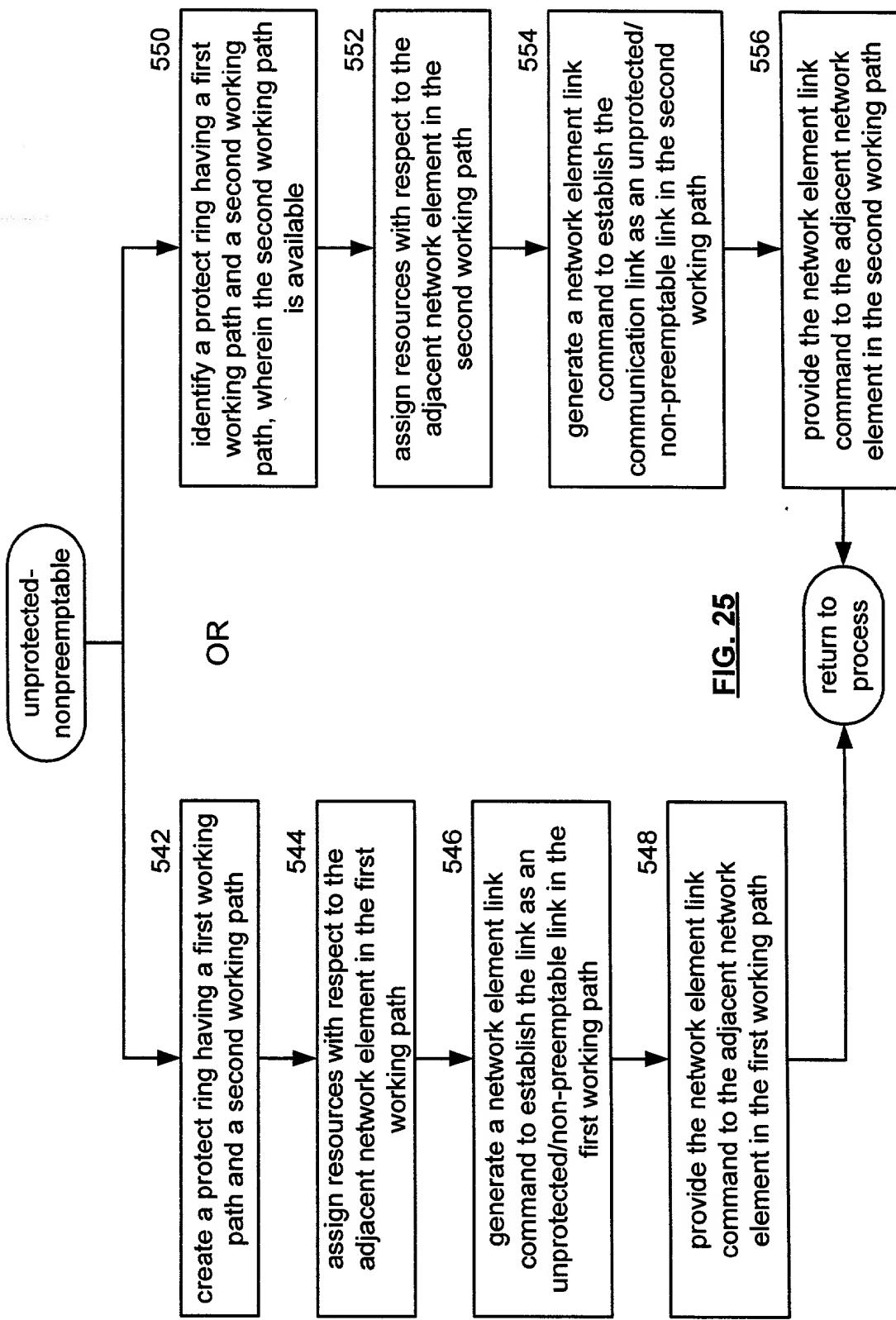
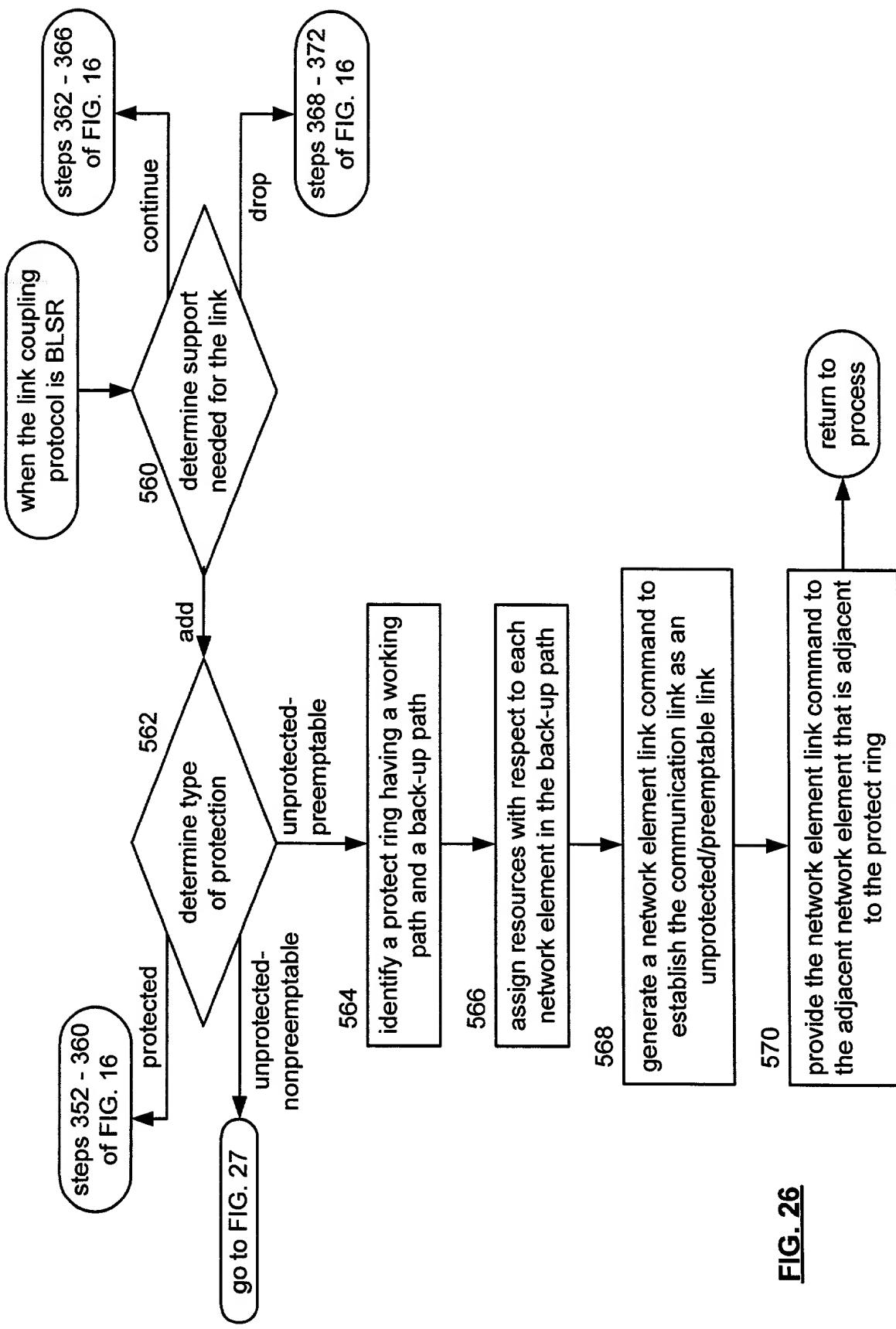
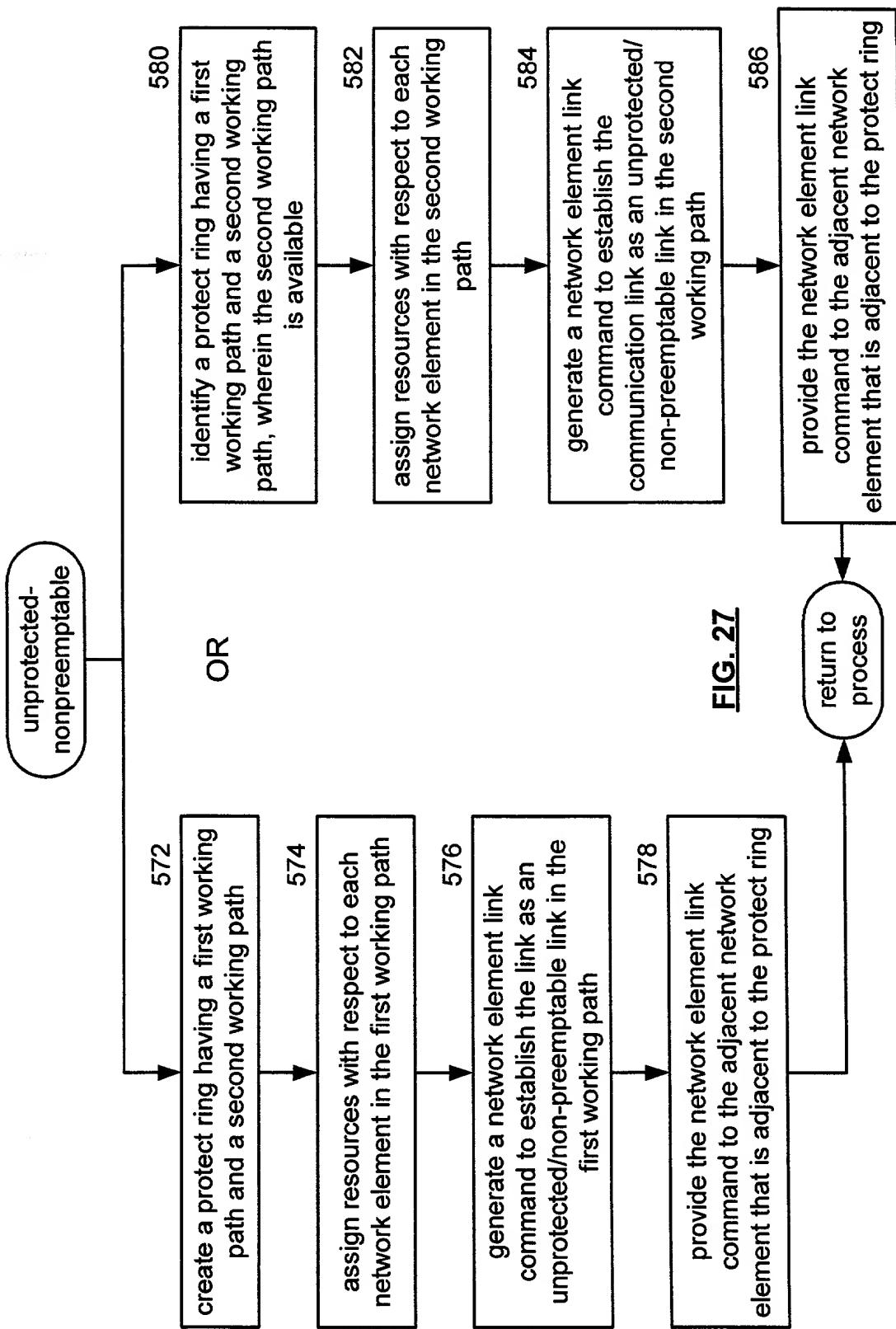


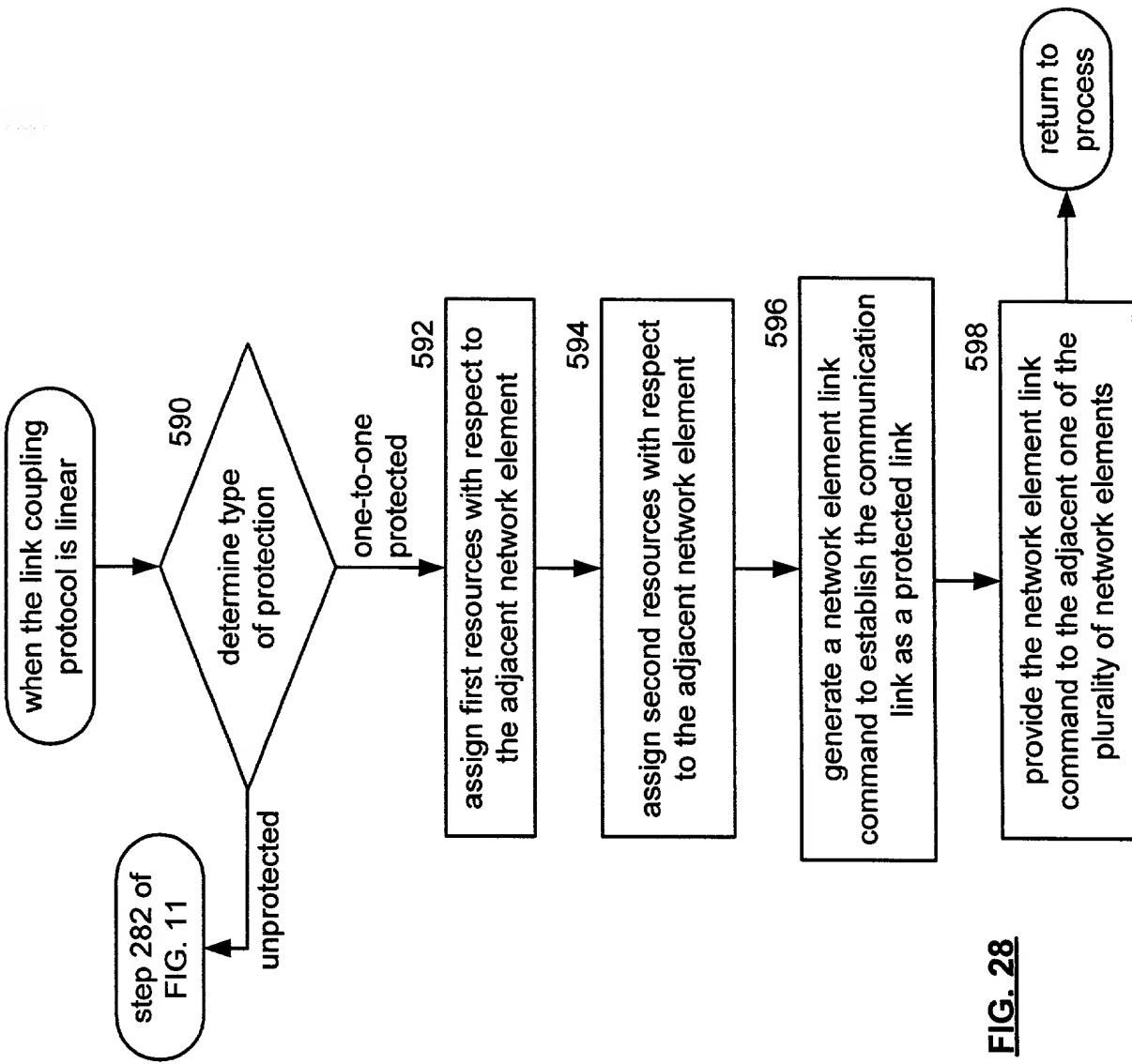
FIG. 23

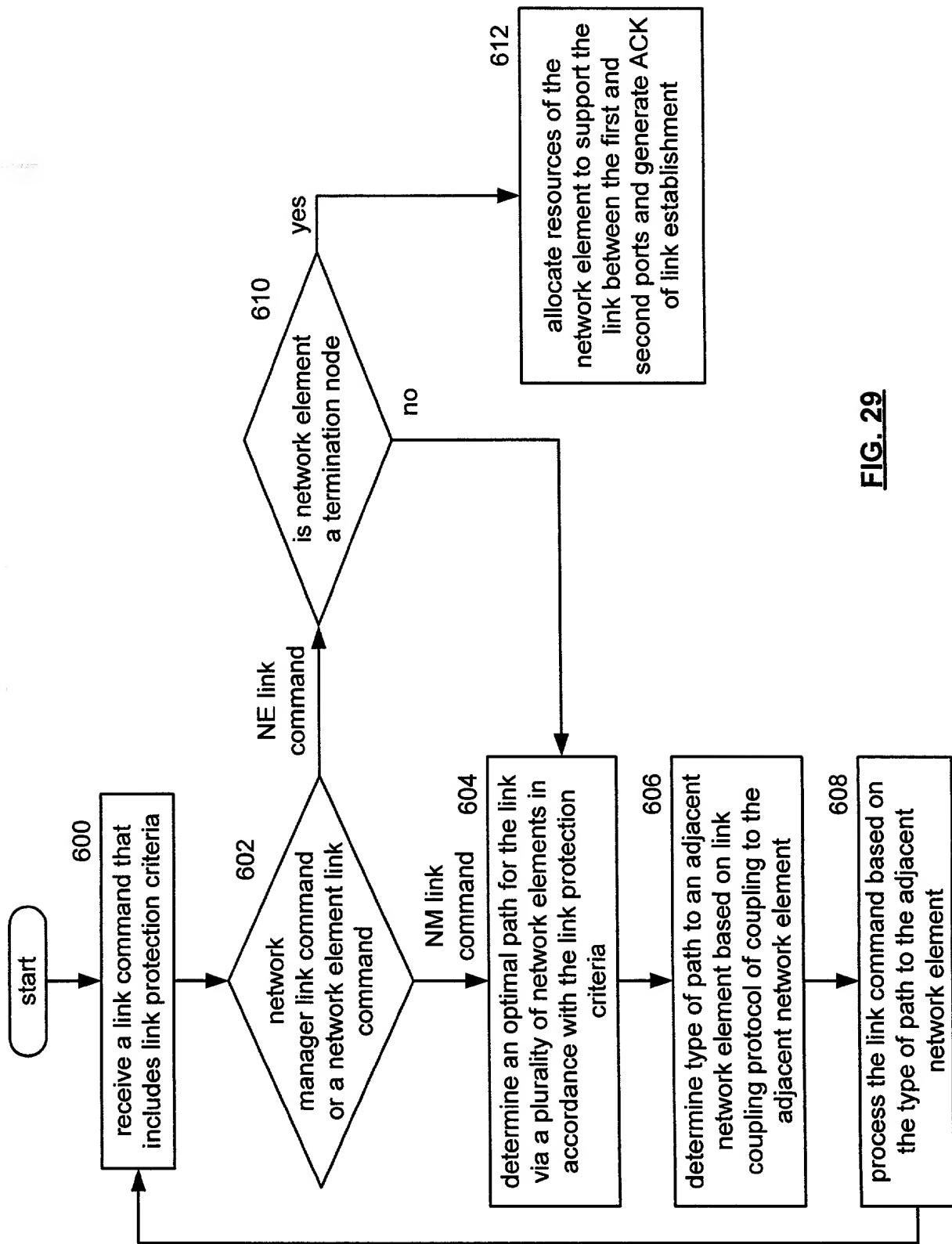


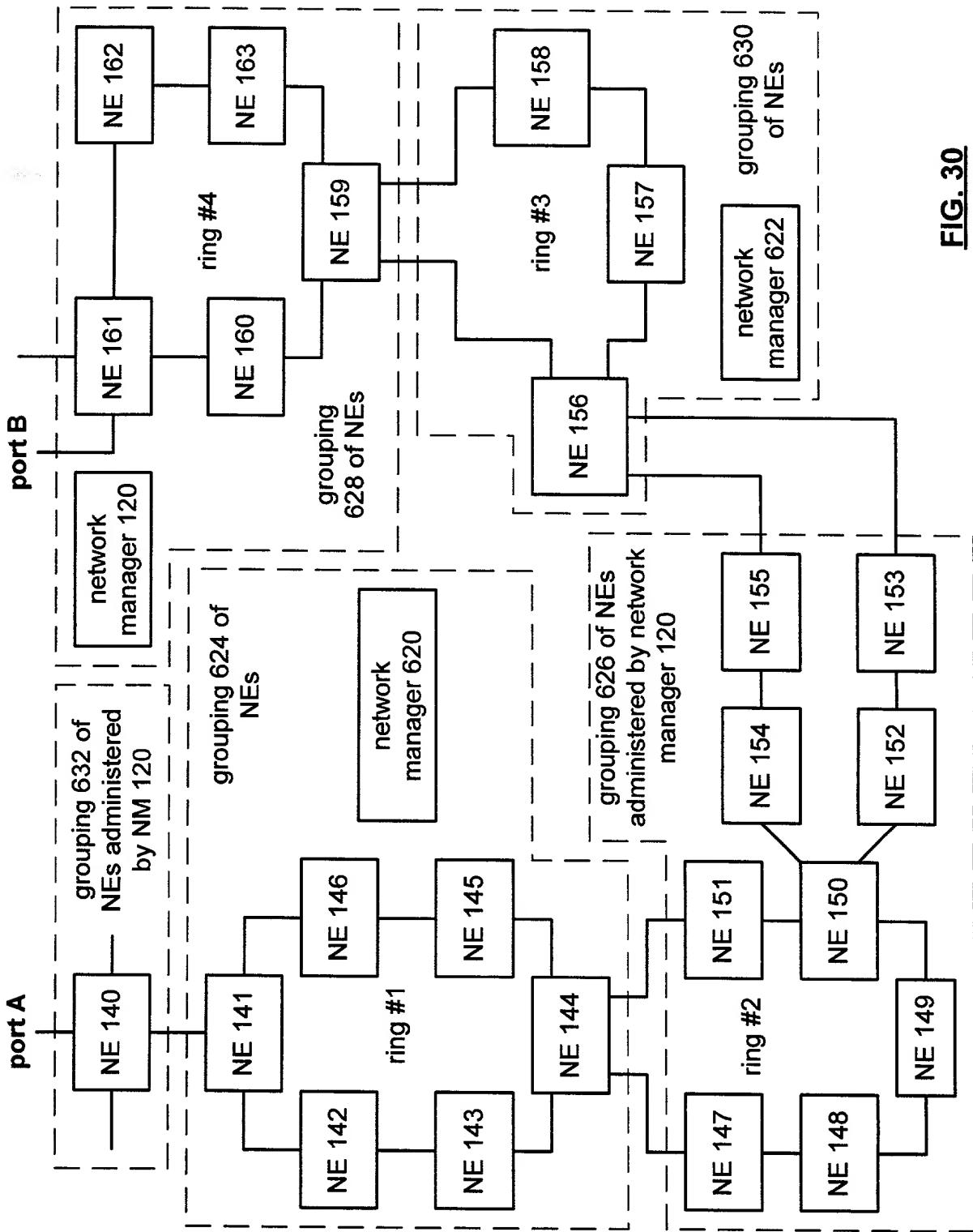












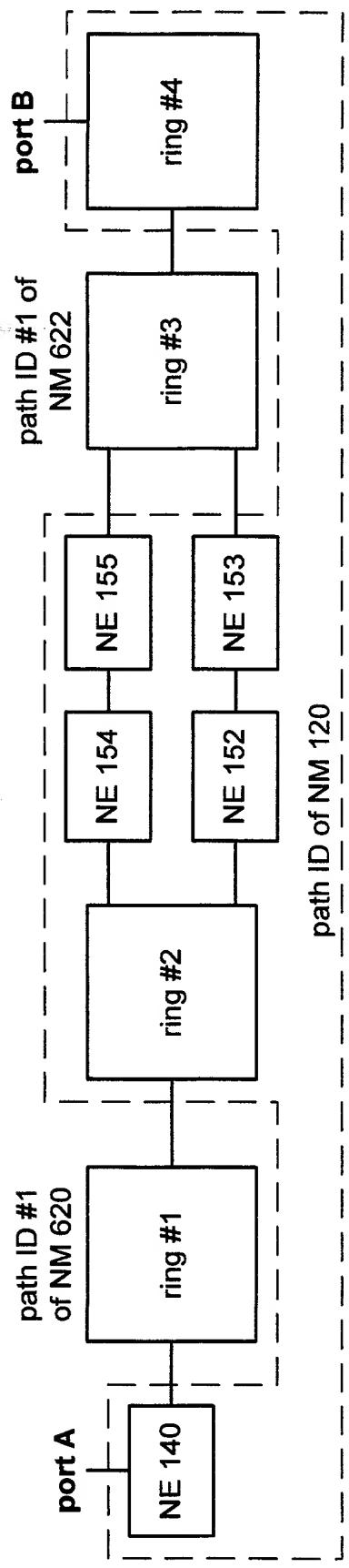


FIG. 31

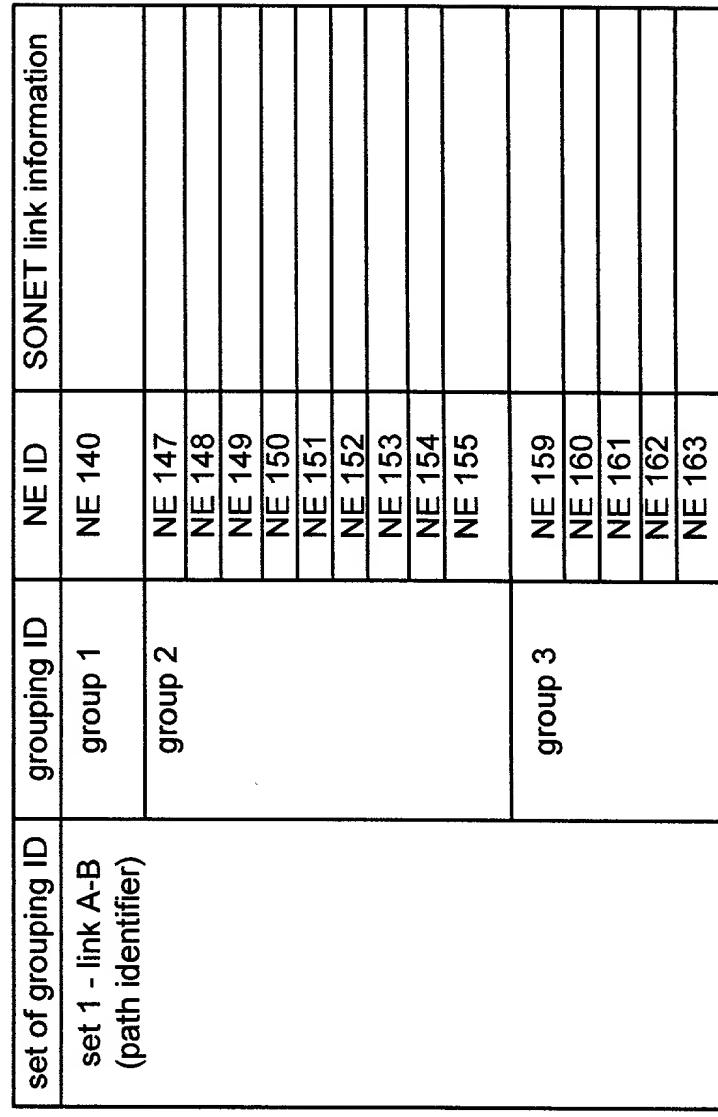
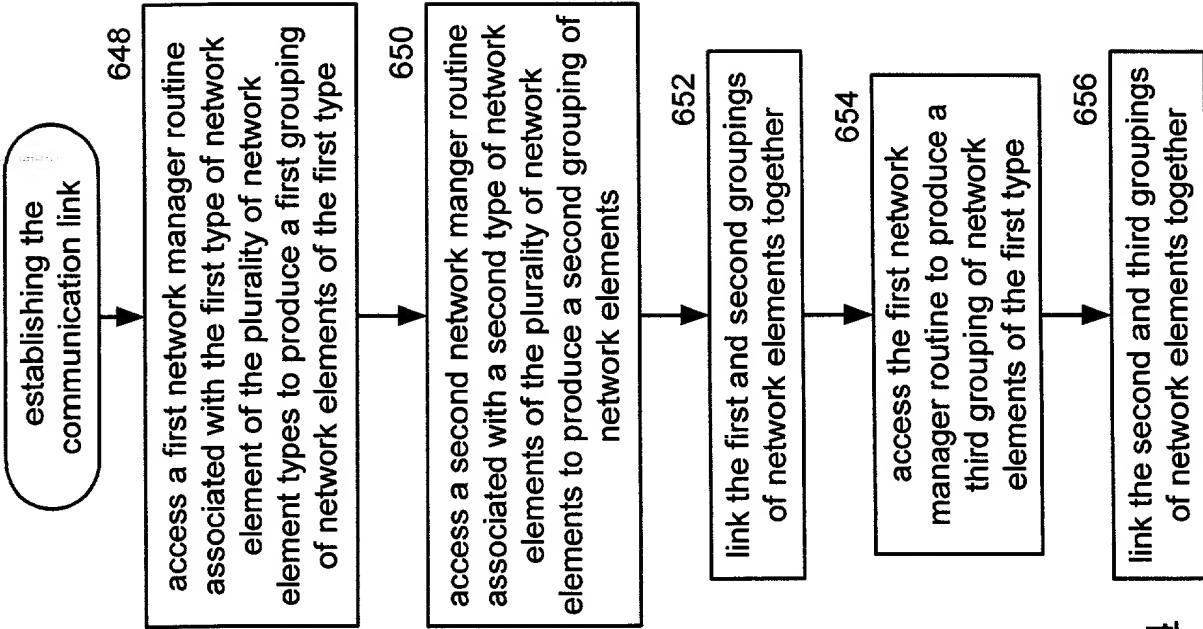
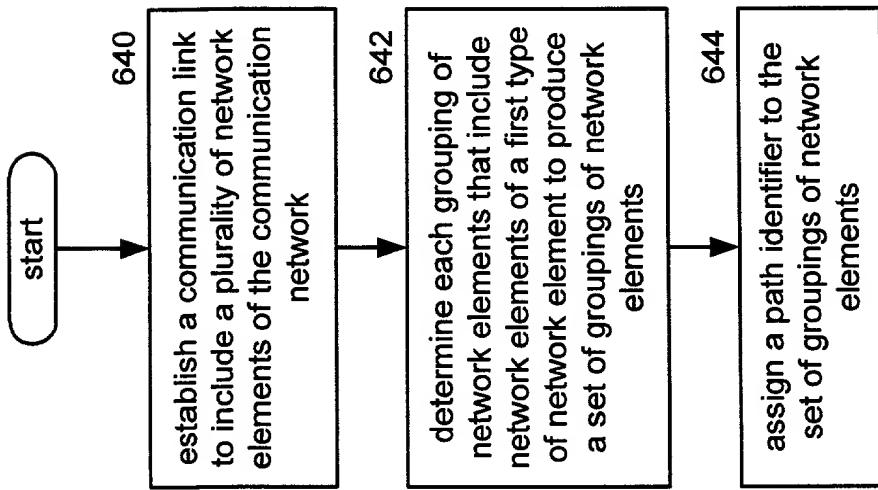


FIG. 32



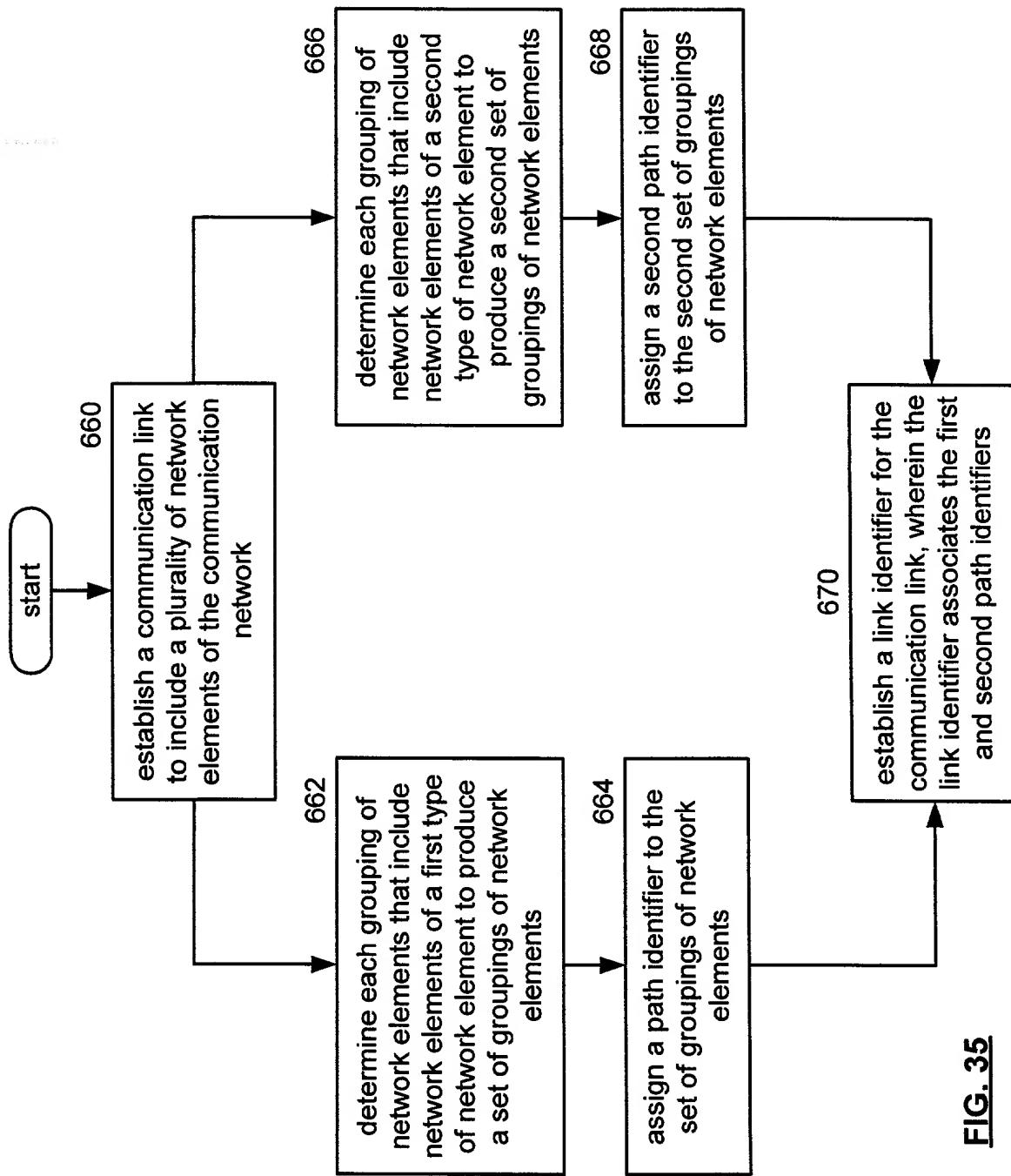


FIG. 35

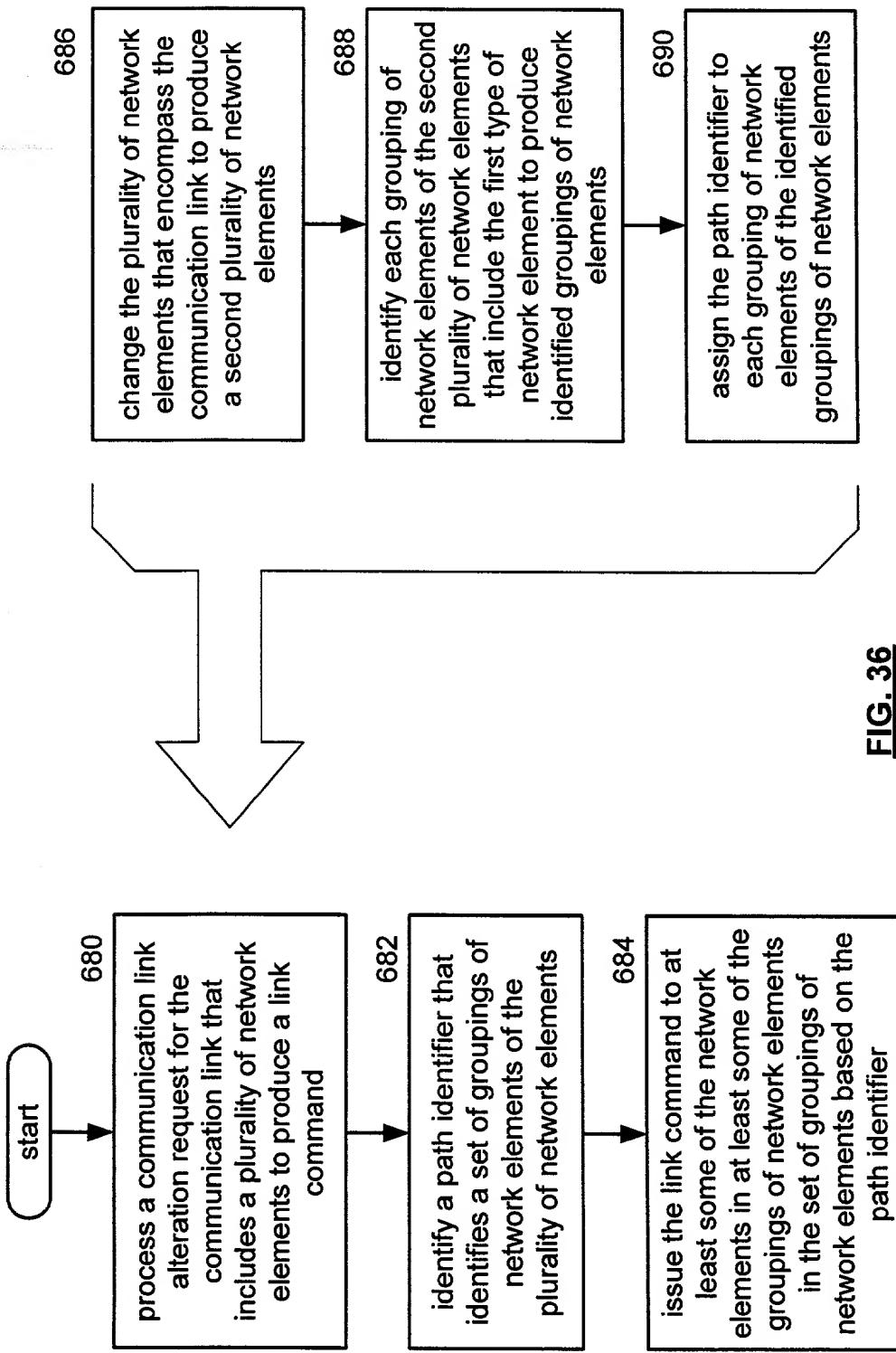


FIG. 36